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02/01/05 Minutes CAC Power Subcommittee

Published: 04/25/2007 | Updated: 04/26/2007
Published By: Communications and Public Outreach

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MINUTES

Tuesday, February 1, 2005
5:00 p.m. - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members present: Alex Lantsberg – Chair, David Pascal, David Hochschild, Ken Monteiro

Staff Present: Suzanne Gautier, Jim Marks, Barbara Hale, Fred Schwartz, Kim Knox, Gary Oto

City Attorney: John Roddy

The meeting was called to order by Chair Lantsberg. After a short welcome and introductions, the floor was given to Barbara Hale, AGM Power Enterprise for a presentation on the San Francisco Electricity Resource Plan/Solar Focus.

Items discussed in the course of the presentation included: The MECA – Mayor's Energy Conservation Account and the SFPUC relationship to that account; the lawsuits involving our relationship with PG & E and the constraints of our interconnect with PG & E; efforts to find alternative funding for the Combustion Turbine projects; the permitting process for new solar projects in the City and what the CAC might do to help expedite that process, and how CAC members may help that effort.

There was a discussion about the nature of funding projects for the Electric Reliability Project; the distinctions between "hard" and "soft" costs, planning money, construction money and how a revenue bond must have a revenue source to support the sale of the bonds. There was discussion about the current state of Solar Projects in the City, including those that have been completed, those currently in planning or other active phases, and those that are being considered for the future.

A handout version of the presentation was provided to all present at the meeting.

After some discussion a motion was made by Alex Lantsberg and seconded by David Hochschild that the San Francisco Public Utilities Commission put 15 million dollars into the MECA for FY 2005/2006 while simultaneously pursuing alternative funding for the Electric Reliability Project.

Motion passed by unanimous vote of members present.

Gary Oto will provide information about the Moscone Project in response to a request from David Hochschild.

Public Comment included: Winchell Hayward on the limitations P G & E places on our ability to generate hydroelectric power; Shauna O'Donnell asked for clarification of slides 10 and 15; Cathleen Sullivan asked about Community Choice Aggregation; Peter O'Donnell talked about the siting of the CT's and asked for clarification of the use of funds from the MECA. He also asked about the Power Enterprise Business Plan.

Future meetings of the Energy Subcommittee were then discussed and a tentative schedule of topics include: March – Community Choice Aggregation

April – The SF Energy Reliability Project

May – Power Enterprise Business Plan

David Pascal motion to adjourn at 7:00pm – unanimously approved.

Back to Top

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Citizens' Advisory Committee
Power Subcommittee

May 3, 2005
5:30pm – 7:30pm
4th Floor Conference Room

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Alex Lantsberg - Chair
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Order of Business

1. Call to order
2. Roll Call
3. Approval of the minutes of the March meeting
4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee and are not on today's agenda
5. Presentation and possible action on the Business Plan for the Power Enterprise
    - Barbara Hale, AGM Power Enterprise
6. Discussion and possible action on two resolutions presented at the full CAC meeting and referred back to the subcommittee – MECA Account Resolution and CCA Resolution
7. Committee comments, questions and requests for agenda items.
8. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

SPECIAL MEETING

Wednesday, June 8, 2005
5:30pm 7:30pm

1155 Market Street, San Francisco
4th Floor Conference Room

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David Hochschild - Chair
Alex Lantsberg
Ken Monteiro
David Pascal

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Governmental Conduct Code §2.100] to register and report lobbying activity. For more information about the Lobbyist Ordinance, please contact the San Francisco Ethics Commission at 30 Van Ness Avenue, Suite 3900, San Francisco, CA 94102; telephone (415) 581-2300; fax (415) 581-2317; web site at www.sfgov.org/ethics.

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Order of Business

1. Call to order
2. Roll Call
3. Approval of the minutes of the May meeting
4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
5. Tour of the Solar Panels installed at the Moscone Convention Center (transportation provided to the site)
6. Committee comments, questions and requests for agenda items.
7. Adjournment

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Citizens' Advisory Committee
Power Subcommittee
Tuesday July 5, 2005
5:30pm – 7:30pm

1155 Market Street, San Francisco
4th Floor Conference Room

Members

Ken Cleaveland
Richard T. Hansen
David Hochschild - Chair
Alex Lantsberg
Ken Monteiro
David Pascal

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Citizens' Advisory Committee
Power Subcommittee
Tuesday July 5, 2005
5:30pm – 7:30pm

1155 Market Street, San Francisco
4th Floor Conference Room

Members

Ken Cleaveland
Richard T. Hansen
David Hochschild - Chair
Alex Lantsberg
Ken Monteiro
David Pascal

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Order of Business

1. Call to order
2. Roll Call
3. Approval of the minutes of the May meeting
4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
5. Staff Report: Progress Report on CT Project Open House events and Air Monitors, Karen Kubick
6. Discussion and possible action on plans for a joint meeting of the CAC Power Subcommittee and the Power Plant Task Force to take place in September 2005
7. Update on progress in arranging tours of the Potrero and Hunter's Point Power Plants
8. Committee comments, questions and requests for agenda items.
9. Adjournment

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GENERAL MANAGER

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NOTICE OF CANCELLATION

The Regular Meeting of the San Francisco Public Utilities Commission Citizens Advisory Committee Power Subcommittee scheduled for Tuesday, August 2, 2005, 5:30pm at 1155 Market, 4th Floor Conference Room, has been cancelled.

A special meeting of the Power Subcommittee will be held on Tuesday, August 9, 2005, 5:30pm, 1155 Market Street, 4th Floor Conference Room

Suzanne Gautier
Staff

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Citizens' Advisory Committee
Power Subcommittee

SPECIAL MEETING

Tuesday, August 9, 2005
5:30pm – 7:30pm

1155 Market Street, San Francisco
4th Floor Conference Room

Members

Ken Cleaveland
Richard T. Hansen
David Hochschild - Chair
Alex Lantsberg
Ken Monteiro
David Pascal

Staff

Suzanne Gautier

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Order of Business

1. Call to order
2. Roll Call
3. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
4. Tour of the Hunter's Point Power Plant*
5. Adjournment

*Tour space is limited and is open on a first-come/first-served basis. Transportation will be provided on a limited basis. For information please contact Suzanne Gautier at 554-3204, or by e-mail at sgautier@sfwater.org

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NOTICE OF CANCELLATION

The Regular Meeting of the San Francisco Public Utilities Commission Citizens Advisory Committee Power Subcommittee scheduled for Tuesday, October 4 2005, 5:30pm at 1155 Market, 4th Floor Conference Room, has been cancelled.

Suzanne Gautier
Staff

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Citizens' Advisory Committee
Power Subcommittee

SPECIAL MEETING

Friday, November 11, 2005
1:30 – 4:30pm
Agenda
6185 Industrial Way
Livermore, California

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Members

Ken Cleaveland
Richard T. Hansen
David Hochschild - Chair
Alex Lantsberg
Ken Monteiro
David Pascal

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Disability Access

The CAC Power Subcommittee meeting will be held at the offices of Florida Light and Power, Altamont Pass Wind Turbine Facility.

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Order of Business

1. Call to order
2. Roll Call
3. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
4. Tour of the Wind Turbine Facilities at the Altamont Pass
5. Committee comments, questions and requests for agenda items.
6. Adjournment

Starting from: A Market St., San Francisco, CA 94105

Arriving at: B 6185 Industrial Way, Livermore, CA 94551-9750

Distance: 44.2 miles **Approximate Travel Time:** 53 mins

Your Directions

1. Start at **[525-555] MARKET ST, SAN FRANCISCO** going toward **BATTERY ST** - go **< 0.1** mi
2. Turn R on **1ST ST** - go **0.5** mi
3. Turn R onto **I-80 EAST** toward **BAY BRIDGE/OAKLAND** - go **5.8** mi
4. Take the **I-580 EAST** exit toward **DOWNTOWN OAKLAND/HAYWARD-STOCKTON** - go **37.1** mi

5. Take the **VASCO ROAD** exit onto **VASCO ROAD SOUTH** - go **0.5** mi
6. Turn **L** on **INDUSTRIAL WAY** - go **0.2** mi
7. Arrive at **6185 INDUSTRIAL WAY, LIVERMORE,** on the **R**

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12/6/05

Citizens' Advisory Committee
Power Subcommittee
Regular Meeting

Tuesday, December 6, 2005
5:00-7:00pm
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

Ken Cleaveland
David Hochschild - Chair
Kimia Mizany
Ken Monteiro
David Pascal

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Suzanne Gautier

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Order of Business

1. Call to order
2. Roll Call
3. Report from the Chair on the November Meeting/Tour
4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
5. Presentation from the SFPUC Power Enterprise: Solar Power and Renewables
6. Committee comments, questions and requests for agenda items.
7. Adjournment

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MAYOR

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Citizens' Advisory Committee
Power Subcommittee
Regular Meeting

Tuesday, January 3, 2005
5:00-7:00pm
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Agenda

Members

Ken Cleaveland
David Hochschild - Chair
Kimia Mizany
Ken Monteiro
David Pascal

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Order of Business

1. Call to order
2. Roll Call
3. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
4. Presentation from the SFPUC Power Enterprise: Energy Efficiency
5. Discussion and possible action on the nomination of Aaron Israel as a member of the Power subcommittee – David Hochschild
6. Committee comments, questions and requests for agenda items.
7. Adjournment

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Citizens' Advisory Committee
Power Subcommittee
Regular Meeting

Tuesday February 7, 2006
5:00-7:00pm
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

David Hochschild - Chair
Ken Cleaveland
Kimia Mizany
Ken Monteiro
David Pascal
Aaron Isreal

Staff

Suzanne Gautier

Agenda

Disability Access

The CAC Power Subcommittee meeting will be held in the Conference Room on the 4th Floor of the SFPUC Offices located at 1155 Market Street. (between 7th & 8th Streets) The Conference Room is wheelchair accessible. The nearest accessible BART station is the Civic Center Station at United Nations Plaza and Market Street. Wheelchair accessible Muni bus lines serving this location are: 5, 6, 7, 9, 21, 66, and 71. Metro Lines are F, J, K, L, M and N. For information about accessible Muni services call (415) 923-6142.

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Order of Business

1. Call to order
2. Roll Call
3. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda
4. Tour of the Solar Installations at the US Postal Service Facility at 1300 Evans Avenue, San Francisco –hosted by Bill Kelly of Powerlight
5. Committee comments, questions and requests for agenda items.
6. Adjournment

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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AGENDA

Tuesday, April 4, 2006
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

David Hochschild - Chair
Ken Cleaveland
Kimia Mizany
Ken Monteiro
David Pascal
Aaron Israel

Staff
Suzanne Gautier

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ORDER OF BUSINESS

1. Call to order

2. Roll Call

3. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

4. Update on status of Community Choice Aggregation by Barbara Hale, Assistant General Manager for the Power Enterprise or one of her staff

5. Committee comments, questions and requests for agenda items.

6. Adjournment

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04/04/06 Minutes CAC Power Subcommittee

Published: 04/26/2007 | Updated: 04/27/2007
Published By: Communications and Public Outreach

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MINUTES

Tuesday, April 4, 2006
5:00 p.m. - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members present: David Hochschild, David Pascal, Aaron Israel, Kimia Mizani, Ken Cleaveland

Members not present: Ken Monteiro

Staff: Jim Marks, Communications

Guest speaker: Barbara Hale, AGM, Power Enterprise

Public: Ken Smolkaska

David Hochschild (DH) noted that, over the last few weeks, subcommittee members have done a number of site visits to wind farms, solar installations and to power plants. DH noted he personally hadn't heard anything about Community Choice Aggregation (CCA) since the last presentation and would love to have an update, particularly about how viable CCA really is. Thanked Barbara Hale for such a stellar solar staff and the development of the City's solar projects.

Barbara Hale (BH) thanked DH for his compliment. She then described the current status of the development of community choice aggregation (CCA).

Ms. Hale stated that CCA is an opportunity for the city to assume responsibility for providing the power component of electrical service to retail customers in San Francisco. Today the city provides the power component and electrical service to all the municipal facilities -- City Hall, the hospital, the airport, port -- all provided by the SFPUC's Power Enterprise. CCA is an opportunity to provide power to SF businesses and residents.

The SFPUC completed and presented a Draft Implementation Plan for CCA last year. Another organization (Local Power) prepared and presented their plan. There has been active discussion among stakeholders in this process to reconcile the differences between the two plans and produce an implementation plan, which is required by state statute.

Ms. Hale noted that she thinks that discussion has come to the point now where stakeholders are in agreement that an implementation plan needs to incorporate the goals of the Electricity Resource Plan adopted by the City. The CCA provider would deliver a very aggressive renewable energy and energy efficiency program in the city.

Ms. Hale stated that there is a CCA Task Force empanelled by the Board of Supervisors to advise them on issues related to the formation of a CCA. She is a member of the Task Force along with other members representing environmental justice, the business community, public finance, energy efficiency and expertise in CCA. (Q.: What is the difference between a task force and an advisory committee? A.: A task force sunsets at a designated time; an advisory committee does not have a preset sunset date.)

There are two sticking points on issues being discussed by the stakeholder group; we're working toward resolution of them at this time. The issues are CCA governance rate setting ("Meet or Beat"). Would this new program be started and implemented within the SFPUC on behalf of the city, or, is this a program that would be run by a new organization within the city? According to Ms. Hale, this issue is not yet resolved, but the stakeholder group are getting much closer to a resolution.

Ms. Hale stated that a report by Howard Golub of the law firm, Nixon-Peabody, suggested that the CCA would need to be governed by an independent policy body, a board representing the interests of key stakeholders within the City. The board, for example, could have 5 members with representation from the Mayor, the SFPUC's General Manager and the Commission, one or two members of the Board of Supervisors, and so on. Stakeholders have agreed that that is a good model, and that they could work out the details about how the reporting works. A new policy body would provide guidance just on the CCA program.

There was discussion also among CCA stakeholders that the policy body would have a relatively short life. It has been suggested that it might provide policy guidance only in the initial period or the start up of CCA. Ms. Hale indicated that she feels the general concept of a separate policy body is a good one. There are questions about how that body would relate to the existing Commission of the PUC, and to the BOS and Mayor.

It looks like CCA would be housed within the PUC. There would be dedicated staff and a program director responsible for it. The program director would present issues and challenges to the CCA's policy body and presumably also to the Board of Supervisors and the Mayor in order for there to be action taken.

Question: Can you help me to understand then, what is it that pulls the trigger on this thing to get it going? Does the structure have to be decided first?

Ms. Hale: The Board of Supervisors will need to issue an ordinance that approves the implementation plan. That will be the real "trigger" for the city and I think we are probably on the road to doing that.

Question: The "meet-or-beat" PG&E rates, would those policies also be in the ordinance?

Ms. Hale responded that presumably they would be adopted by the Board. CCA staff could then issue a Request for Information (RFI) to obtain feedback from the public and especially electric service providers (ESPs), to make sure of what the renewables target is for the community we are servicing, invite any comments on anything that might not have been addressed, so that they might take those comments into consideration when preparing an RFP. That way, staff could put together an RFP that might draw bids and also modify the implementation plan details based on the type of feedback we get from the request for information.

Compliant filing of the City's Implementation Plan at the California PUC might need checking with the BOS. The CCA might need to get some early direction from the board about how to move on the community aggregation concept.

Ms. Mizani: You mentioned the compliance with the California PUC. Will that be a lengthening point?

BH: I don't think that is going to be a lengthening point. AB 117 says that the California PUC have 90 days to act once the Implementation Plan has been filed. Now, in reality those kinds of short deadlines are more guiding targets. Our implementation plan will be the first one, and it will be one of the biggest ones the CPUC sees, so it will take them a while.

Question: What other local jurisdictions are considering CCA?

BH: Oakland, Emeryville and Berkeley are considering a joint powers authority (JPA). Even if Oakland and Emeryville decide not to go forward, we are going to keep going. We look at the economics; sometimes it makes more sense for some cities to do it than others. Chula Vista near San Diego has been very active, as well as some districts in Los Angeles County.

Ken Cleaveland (KC) comment: There were certainly a lot of questions expressed by downtown consumers, which are the largest consumers of electricity in this city and probably even outside of the city. The task force has a task in front of it to sell the business community on buying electricity from the city as opposed to buying it from PGE. There will be a lot of issues that need to be cleared up, regarding price, exit fees, etc. We know what they are today, but conditions could change before we would file our plan.

KC: Who would call the shots for CCA, the City or the electric service provider?

BH: No particular structure has been selected, so, as to "calling the shots," the city either through the PUC or through this policy board that brings together representation through the mayor, the Board of Supervisors, the GM and PUC, would be responsible. I think the board-of-control concept is a good model. It is probably worth it so that we have more direct interface with the mayor and members of the board on some of the policy questions.

Question: Do you think customers will get some substantial discounts through the aggregation proposal that will not be met or beaten by the utility?

BH: No, I don't. I think the program in the long run will prove to be better for customers. Will the utilities be able to come in and compete effectively as we lay out the program? I think they'll make a good run at it.

BH: I think that one of the advantages of the community choice aggregation program will be a more stable rate structure. The CCA program that we are talking about developing will shift that risk to the contract holder, will require renewables portfolios that are not subject to price fluctuation and will in the earlier years offer less uncertainty.

Question: regarding profit motive, critics would say it would be more expensive because you would have to create a new organization and buy more renewables.

BH: I think those are some of the items of concern. I don't know that the administrative costs would be a real driver. What is going to drive the cost is electric power procurement, whether the entity that the city contracts with can then go out into the

market and compete successfully with PG&E.

Question: On the rate structure, will CCA be able to change the rate structure that the CPUC has set up?

BH: the CCA will impact only the procurement part of the rates. Everything else you see on your bill will remain the same, and these rates are all regulated by the California PUC, even for the CCA program. The one thing that would not be regulated by the California PUC would be the commodity portion.

KC comment: Our association's (Building Owners and Managers Association – BOMA) contention is that customers ought to pay for service they receive and that every rate should be based on cost of service. We know that commercial customers pick up a bigger share of the cost. We fear -- and this fear has promoted a somewhat hands-off attitude towards CCA – that if the City gets hold of the rate structure, that it will skew those rates even more against industrial and commercial customers than the California PUC.

BH: We are envisioning a program is fair to all customers. If business customers were to opt out, CCA could still be a successful program. You could design a program that is more of a green procurement program and market it accordingly. Portland General Electric has a green energy program where customers pay more. We haven't really talked this through with the stakeholders.

Comment: If you want an accurate bid, then you'll need to know what your customer base is going to be.

BH: There is certainly a challenging interlude there where you are courting a bidder, and you are trying to market the program and describe it to those to whom you are marketing it, and you are not sure if they are going to stay or go – there is some risk that what you are marketing, you are not going to be able to deliver.

BH: When you consider that portion of PG&E's revenue in San Francisco, they spend about $250M a year to procure power. So it is about a $250M-a-year program we are looking at.
Comment: you have to keep in mind that PG& E may try to keep its customers, but, in the long run, they don't make their money on the commodity, they make their money on the transmission and distribution of that ccmmodity. So, as long as they own the lines, they will continue to make money.

BH: CCA takes over only the procurement part. San Francisco residents and businesses would receive a bill from PG&E; they would not receive a bill from the community choice aggregator. There would be one line on the bill that would describe this.

DH Question: Did PG&E oppose AB 117?

BH: They did not oppose AB 117. They have a lot of work to do in the implementation of CCA, and we are seeing them trying to make sure that there are charges and fees to the aggregator to cover their costs. For example, a customer's bill will say the power is from the City and County of San Francisco. They are going to charge us for that line. They are not opposing the program, but they are making sure that we feel the impact of these costs.

Question: Can you explain the RFI?

BH: The RFI has not gone out; we have been discussing it. The purpose of the RFI is to put out what you think you would want to put out in a bid. In effect, you put out a test

bid to find out whether this is what the community wants. We can then hear from potential bidders about whether they feel this is enough information, whether this is unrealistic, too shy, too aggressive, etc. They can give us comments on all aspects of the program. We have drafted an RFI and it has been talked through a couple of times. We've talked with the stakeholders. There seems to be agreement among the stakeholders that we can issue the RFI before filing the Implementation Plan at the CPUC. If there is anything that is not supported by the community or not fleshed out enough for potential bidders, we will hear about that before we go public with the RFP.

Question about inviting electric service providers to make a presentation to the CCA Task Force.

BH: The task force decided to invite registered certified electrical service providers to a task force meeting to hear from them what they think of the program. It is my understanding that that happened because the task force realized they were not going to come to an agreement on what the RFI should say. They were looking for other ways to get some feedback. April 6th is when the Task Force will be at city hall and we expect to hear from about six ESPs. It should be very interesting to see what they have to say and how far in the future the qualifiers will put in bids.

Question to Barbara: Has there been any change to the provisions in CCA for renewable energy and energy efficiency?

BH: The plan as we are conceiving it now, as developed by the stakeholders, is to have a high percentage of renewables. There is still a great deal of discussion about how much advance work the city will do. The stakeholders are trying to determine whether to figure out all those details before the RFP versus having the bidding community coming to us with ideas on how that might happen. There is still discussion on that point.

Comment: If you are going to have something special with solar in this town you are going to have to have low-interest or no-interest financing. Commercial building owners say, if you find a spot for solar on their building, who is going to pay? We don't want a 30-year pay back plan. Building owners need a fast turn around and they need a low interest rate. There has to be a way to finance this. It is all about the financing.

Rebate programs should have a very short window in which you can qualify. The programs need to be funded for 5 years at a time as opposed to one year. People need that predictability.

Question: I wonder how the city will manage permitting and public rollout really quickly. Will there be labor preferences or requirements?

BH: The city contracting process will be one of the challenges that the program presents. Any time the city contracts, there are certain rules about labor issues; it brings up all kinds of things. A lot of corporations deal with labor issues because the City has special requirements that need to be addressed by the bidders. The contract for community choice aggregation would be a challenge with respect to the permitting process. We will need to engage with other city departments. Planning and Finance, for example, will have a roll to help us. Other arms of the city are going to need to come together to make this happen. Certainly the city will need to make the permit process for residential installations an over-the-counter, pay-a-fee-and-walk-away process for this program.

Comment: Various arms of the government take 3 months to get to. Is that a scenario that would happen, a low, over-the-counter cost, and no delays?

BH: This will be a city program and the budget challenges for the program director will

require a smooth process for making that linkage between a certain provider and all their subcontractors, all the who folks are behind a particular contract. All the city departments will need to make sure this is a smooth rollout. There is a lot of work to do.

Question: What is the timeline?

BH: We would like to see an ordinance before the Board of Supervisors that describes the program and its policy implications. Unfortunately there is no city attorney familiar with these matters at the moment. We anticipate program rollout this summer.

Question: When you say rollout, you mean launch it, RFP...?

BH: Once we have the policy statement ordinance from the Board of Supervisors we are probably looking at about a year and a half before we have a contractor on board. The best scenario assumes that most of the due diligence is done by the bidders.

David you had asked about the feasibility of rolling out the solar and how that could be done effectively; how fast the network can stomach all that development. Those sorts of questions should be addressed by the city upfront before the proposal goes out, which would extend that year-and-a-half time frame. In the city we'd be doing more work and analysis on the local network and how much of a concentration on solar the network can take, for example.

One last question: How long will the prohibition against Direct Access continue?

BH: It will continue until all of the Department of Water Resources' energy procurement function ends, probably in the range of 2016 to 2020.

Would Direct Access be another party to compete with?

If we had a direct access, it would be another competitor, just like PG&E. The aggregation program is designed to work very much like the direct access program. It is just that the provider is a city or a county.

Question: Will the City and County of San Francisco own the combustion turbines (CTs)?

BH: Yes. Under a power purchase agreement with DWR, they will purchase the power at cost. When the city became the recipient of the turbines, it was agreed that the state would reimburse us the development costs. DWR will purchase the output at cost. The CTs will not be a revenue generating facility during the 10-year contract term.

Question: What ideas or role is public power playing? Do you have more information?

BH: I can tell you that we are currently the power provider at Treasure Island. The Department of Environment is responsible for putting together the Treasure Island Plan, so you might want to hear from them and the Treasure Island Development Authority. I can also give you names of the specific people and contacts.

Comments: I would love to hear what the energy plans are for the Hunters Point Naval Ship Yard. What are the plans for the decommissioned Hunters Point Power Plant site?

BH: Hunter's Point Naval Ship Yard is an area where we have been able to provide public power service. I can have staff come and speak about the phasing of the development and what requirements Lennar has.

On the closure of Hunter's Point Power Plant – that has been just beyond our reach since 1998, when the City and County of San Francisco completed an agreement with PG&E to

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SUSAN LEAL
GENERAL MANAGER

NOTICE OF CANCELLATION

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee's Power Subcommittee, scheduled for Tuesday, May 2, 2006 5:00 p.m. at 1155 Market, 4th Floor Conference Room, has been cancelled.

The next regular monthly meeting will be held on Tuesday, June 6, 2006.

James V. Marks
Staff

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05/31/2006

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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AGENDA

Tuesday, June 6, 2006
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

SF
P82.2582
#1
6/6/06

David Hochschild - Chair	Ken Monteiro
Ken Cleaveland	David Pascal
Kimia Mizany	Aaron Israel
Alex Lantzberg	Nick Carlin

Staff
Suzanne Gautier

Disability Access

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ORDER OF BUSINESS

1. Call to order

2. Roll Call

3. Consideration of minutes from meeting of April 4, 2006

4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

5. Committee members to leave for tour of the LEED gold-rated NRDC office at 111 Sutter Street, # 20. (Nearest BART/Muni stop: Montgomery Street)

5. Committee comments, questions and requests for agenda items.

6. Adjournment

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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AGENDA

Tuesday, October 3, 2006
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

SF
P82.2582
#1
10/3/06

Members

David Hochschild - Chair
Ken Cleaveland
Kimia Mizany
Ken Monteiro
David Pascal
Aaron Israel
Nick Carlin

Staff

Suzanne Gautier and Jim Marks

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ORDER OF BUSINESS

1. Call to order

2. Roll Call

3. Consideration of minutes from meeting of July 6, 2006

4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

5. Presentation on the development of a plan to implement a tidal power project in San Francisco.

6. Questions about and discussion of the presentation.

7. Public comment on Agenda Item 5

8. Committee comments, questions and requests for agenda items.

9. Adjournment

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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AGENDA

Tuesday, November 14, 2006
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

11-09-06A09:57 RCVD

Members

David Hochschild - Chair
Ken Cleaveland
Kimia Mizany
Ken Monteiro
David Pascal
Aaron Israel

Nick Carlin

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11/14/06

Staff

Suzanne Gautier and Jim Marks

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ORDER OF BUSINESS

1. Call to order

2. Roll Call

3. Consideration of minutes from meeting of October 3, 2006

4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

5. Presentation on the status of current solar energy projects and plans for the development of future solar power projects by the SFPUC's Power Enterprise.

6. Questions about and discussion of the presentation.

7. Public comment on Agenda Item 5

8. Committee comments, questions and requests for agenda items.

9. Adjournment

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Citizen's Advisory Committee
Power Subcommittee

Draft Minutes
January 17, 2007
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room A

Members

Kimia Mizany – Chair
Aaron Israel
Nick Carlin
Steve Lawrence
Winchell Hayward

Members present: Kimia Mizany (Chair), Aaron Israel, Steve Lawrence,

Members not present: Winchell Hayward, Nick Carlin

Staff:
Jim Chien

Members of the Public: none

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ORDER OF BUSINESS

Roll Call

1. **Call to Order**
   Kimia Mizany, Chair, called the meeting to order at 5:40 pm...

2. **Approval of Minutes**
   Minutes of meeting of October 9, 2007 was adopted unanimously without revision.

3. **Announcements**

4. **Public Comment**
   No public comment.

Presentations and Discussion: Barbara Hale who is the Assistant General Manger for the SFPUC Power Enterprise gave a presentation on the Power Enterprise's 2008/09 budget and an update on the Solar Incentive programs and CCA.

Ms. Hale said that the PUC 2008/09 budget allocation for the Power Enterprise divided into 5 main categories: 3.9 millions for administration, 4 millions for Infrastructure group, 35.6 million for power purchasing and scheduling (33 million will be used for power purchasing), 2.6 million for retail and service and 2.6 million for the field service and street lighting group.

Ms. Hale said that the SFPUC Power Enterprise is continuously working on rate reform to ensure steady revenues for the SFPUC. Besides working on projects like the Combustion Turbine, an internal organizational reform has also been implemented to best accomplish the SFPUC mission.

Ms. Hale then moved on to the Solar Incentive Program. She said if everything goes according to plan, the first payout from the Solar Incentive program will be coming up soon. She added that 3 million dollars has been allocated to the Mayor's Solar Taskforce's annual budget to encourage residents and businesses to install solar. Homeowners can get a rebate from the state and will be able to get a loan from the city to offset the cost. She also mentioned the Mayor's announcement to place solar incentive imitative to the ballot.

Ms. Hale reported that Assessor Phil Ting and Mayor Newsom have offered to work with the Sierra club on the CCA issue. There has been concern regarding whether the Solar Incentive program can work with CCA program. Ms. Hale explained that the CCA is neutral program with respect to the source of electric power. It will complement well the Solar Incentive program.

She also said that the CCA program under the PUC Power Enterprise has currently filled the director and the secretary positions. The new director will interview and hire two energy analysts.

5. Motion to move next meeting to February 12, 2008 was passed unanimously.

6. Meeting adjourned at 8:00 PM.

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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AGENDA

Tuesday, February 6, 2007
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

David Hochschild - Chair
Ken Cleaveland
Kimia Mizany
Nick Carlin
David Pascal
Aaron Israel

Staff

Suzanne Gautier and Jim Marks

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ORDER OF BUSINESS

1. Call to order

2. Roll Call

3. Consideration of minutes from meeting of November 14, 2006

4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

5. Update presentation on the recently completed Pier 96 solar energy project and a briefing on the current status of the SFO solar power project by the SFPUC's Power Enterprise.

6. Questions about and discussion of the presentation.

7. Public comment on Agenda Item 5

8. Committee comments, questions and requests for agenda items.

9. Adjournment

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AGENDA

Tuesday, March 6, 2007
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

David Hochschild (Chair)

Nick Carlin Ken Cleaveland

Aaron Israel Steve Lawrence

Kimia Mizany David Pascal

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Suzanne Gautier and Jim Marks

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ORDER OF BUSINESS

1. Call to order

2. Roll Call

3. Consideration of minutes from meeting of November 14, 2006

4. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

5. Presentation on the Hetch Hetchy Hydropower System: History of development (Raker Act); current system and its operation; cost and revenue; constraints (Water First Policy); relationship to other Power Enterprise activities; challenges.

6. Questions about and discussion of the presentation.

7. Public comment on Agenda Item 5

8. Committee comments, questions and requests for agenda items.

9. Adjournment

03/30/2007

San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AGENDA

Tuesday, April 3, 2007
5:00 - 7:00 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

Winchell Hayward

Nick Carlin Ken Cleaveland

Aaron Israel Steve Lawrence

Kimia Mizany David Pascal

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Staff
Jim Chien and Jim Marks

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ORDER OF BUSINESS

1. Call to order & Roll Call

2. Consideration of minutes from meeting of March 6, 2007

3. Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

4. Discussion and possible action regarding a requirement that all new construction in the city, above a certain threshold, be required to achieve a minimum of LEED Silver. This would apply to private projects, extending the scope of the current policy that applies only to municipal buildings. Public comment.

5. Staff update from senior staff regarding the current status of CCA. Public comment.

6. Discussion and possible action on change of meeting time from 5:00PM to 5:30PM. Public comment.

8. Committee comments, questions and requests for agenda items.

9. Adjournment

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RICHARD SKLAR

SUSAN LEAL
GENERAL MANAGER

2.2582
1
1/1/07

San Francisco Public Utilities Commission
Citizens' Advisory Committee

Power Subcommittee

AGENDA

Tuesday, May 1, 2007
5:30 - 7:30 p.m.
1155 Market Street, 4th Floor Conference Room
San Francisco, CA

Members

Kimia Mizany – Chair
David Pascal
Nick Carlin
Ken Cleaveland
Aaron Israel
Steve Lawrence

Staff - Jim Chien

10:55 a.m. MSF
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Disability Access
The CAC Power Subcommittee meeting will be held in the Conference Room on the 4th Floor of the SFPUC Offices located at 1155 Market Street, (between 7th & 8th Streets.) The Conference Room is wheelchair accessible. The nearest accessible BART station is the Civic Center Station at United Nations Plaza and Market Street. Wheelchair accessible Muni bus lines serving this location are: 5, 6, 7, 9, 21, 66, and 71. Metro Lines are F, J, K, L, M and N. For information about accessible Muni services call (415) 923-6142.
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Lobbyist Registration and Reporting Requirements
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Know your rights under the Sunshine Ordinance
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ORDER OF BUSINESS

1) Call to order

2) Roll Call

3) Approval of minutes from meeting of April 3, 2007

4) Public Comment - members of the public may address the subcommittee on matters within the jurisdiction of the subcommittee not on today's agenda

5) Presentation: John Doyle of SFPUC Power Enterprise will give an overview of:

   a) Renewable energy and energy efficiency planning for the new SFPUC headquarters at 525 Golden Gate, and,

   b) Current status of planning for the development and financing of future renewable energy and energy efficiency programs and projects

6) Questions and discussion of the presentation.

7) Public comment on Agenda Item 5

8) Committee comments, questions and requests for agenda items:
   Discussion on CAC Power sub-committee's future direction and agenda setting to support it.

9) Discussion and possible action on the Regular Power Subcommittee Meeting to be held on July 3,2007, the day before a national holiday.

10) Adjournment

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6/5/07

Citizens' Advisory Committee
Power Subcommittee
June 5, 2007

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:00pm

Members

Kimia Mizany – Chair
Nick Carlin
Ken Cleaveland
Steve Lawrence
David Pascal
Aaron Israel

Staff: Jim Chien

1:35 p.m. usf
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Agenda

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Order of Business

1. Call to order

2. Approval of minutes of April 3, 2007 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation
   a. The proposed new SFPUC Administration Building at 525 Golden Gate Avenue – overview of design, green components, cost, and funding - Tony Irons, Deputy General Manager, SFPUC and John Doyle, Power Enterprise.

6. Discussion and action on whether or not to hold the regularly scheduled Power Subcommittee meeting on July 3, 2007.

7. Discussion on CAC Power sub-committee's future direction and agenda setting to support it.

8. Adjournment

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Citizens' Advisory Committee
Power Subcommittee
SPECIAL MEETING

July 10, 2007

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair
Nick Carlin
Ken Cleaveland
Winchell Hayward
Aaron Israel
Steve Lawrence
David Pascal

Staff: Jim Chien

1:20 p.m. nsf
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Agenda

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Order of Business

1. Call to order

2. Approval of minutes of June 2007 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentations

   a. Community Choice Aggregation (CCA) status updates –Barbara Hale, Assistant General Manager for Power Enterprise, San Francisco Public Utilities Commission

   b. SF Green Building Ordinance – Phil Williams, San Francisco Mayor's Green Building Taskforce

6. Discussion and possible action to pass a proposed resolution to support Supervisor Peskin's Green Building Ordinance (see attached).

7. Discussion and possible action to pass a resolution for all city departments to pay for electricity usage.

8. Adjournment

Presentation materials are available before the meeting. Please contact Jim Chien, jchien@sfwater.org, 415-554-3244 to obtain a copy.

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Citizen's Advisory Committee
Power Subcommittee

Draft Minutes
August 7, 2007
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room

Members

Kimia Mizany – Chair	Aaron Israel
Nick Carlin	Steve Lawrence
Ken Cleaveland	David Pascal
Winchell Hayward	

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Staff: Jim Marks, Communications
Public: No members of the public attended.

Members present: Kimia Mizany (Chair), Nick Carlin, David Pascal, Steve Lawrence, Aaron Israel

Members not present: Ken Cleaveland, Winchell Hayward

Staff: Jim Marks, Communications

Public: No members of the public attended.

1. Call to Order. Chair Mizany called the meeting to order at 5:45 PM.
Roll Call:
Members present: Kimia Mizany (Chair), Nick Carlin, David Pascal, Steve Lawrence, Aaron Israel

Members not present: Ken Cleaveland, Winchell Hayward

2. Minutes of meetings of 06-05-2007 and 07-10-2007 were adopted unanimously without revision.

3. Announcements: There were no announcements. Nick Carlin reported on the Green Building resolution. Have deferred to resolution coming out of Supervisor Peskin's office.

4. There was no public comment.

5. Presentation and Discussion: Update on the Combustion Turbine (CT) Project by Karen Kubick, Power Enterprise, SFPUC. Ms. Kubick briefly described the project: two sites, one on four acres just east of the new Muni Metro yard that would contain three CTs; the other on two acres at the NE corner of the airport containing one CT, to ensure electrical reliability within the City and County of San Francisco. These two projects would enable the California Independent System Operator (CalISO) to remove the reliability-must-run (RMR) contract from the Mirant Plant, which would then likely close, because it would not be economical to continue running. The Mayor's office is in negotiations with Mirant to ensure the plant will close after the CTs are up and running. Environmental review for these facilities has been completed.

   Ms. Kubick also described the problems and challenges involved in securing a contractor to build these facilities. Currently the City, through the SFPUC, has a signed letter of intent and is in negotiations with J Power of Chicago, a subsidiary of a Japanese energy company, on a "Design, Build, Own, Operate and Transfer" (DBOOT) agreement under which J Power would design, build, own, operate and, after 10-to-12 years, transfer the peaker plant facilities back to the City.

   When asked how many hours these units would operate yearly, Ms. Kubick pointed out that each unit would be permitted to run for a maximum of 4,000 hours per year. Modelling shows that the units would likely run about 2900 hours per year and, once the Trans-Bay Cable project is completed, modeling indicated they would then likely run about 1900 hours per year. These units would provide a significant air quality improvement over the current Mirant base-load plant and diesel-powered peakers. The units have been stored for several years at GE's facility in Houston, would have a manufacturer's warranty for one year after installation. Their life expectancy is 30 years.

6. Date of September meeting and future agenda items. Members discussed future agenda items. Mr. Israel was concerned about committee's being in a reactive rather than proactive mode. Members agreed to ask Barbara Hale to present a six-month look-ahead at Power Enterprise initiatives and activities at the September meeting. Members also urged the chair to move the resolution on City departments' electricity rates, passed at the July meeting, forward to the full CAC meeting later this month.

   Members agreed to move the September meeting from September 4th to September 11th, same site and time.

7. Adjournment. Meeting adjourned at 7:20 PM.

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special

Citizens' Advisory Committee
Power Subcommittee
SPECIAL MEETING

September 11, 2007

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair
Nick Carlin
Ken Cleaveland
Winchell Hayward
Aaron Israel
Steve Lawrence
David Pascal

Staff: Jim Chien

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Agenda

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Order of Business

1. Call to order

2. Approval of minutes of August 2007 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentations & Discussions

   PUC Power Enterprise Assistant General Manager Barbara Hale will give an overview of the Power Enterprise's goals, priorities and upcoming projects for the next 6 months.

6. Adjournment

For presentation materials, please contact Jim Chien, jchien@sfwater.org, 415-554-3244.

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GENERAL MANAGER

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addendum

ADDENDUM TO AGENDA

Citizen's Advisory Committee
Power Subcommittee
SPECIAL MEETING

September 11, 2007

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair	Aaron Israel
Nick Carlin	Steve Lawrence
Ken Cleaveland	David Pascal
Winchell Hayward	

Staff: Jim Chien

5. Presentations & Discussions:

B. Discussion and possible action for the Power Subcommittee to draft a letter of support of a grant application. The Power Enterprise is applying for a grant from the California Energy Commission to study the development of geothermal power for municipal use. Russell Steppe and John Doyle, Power Enterprise

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Citizen's Advisory Committee
Power Subcommittee

NOTICE

The SFPUC CAC Power Subcommittee Meeting has been postponed from **Tuesday, October 2** until **Tuesday, October 9.**

The meeting will take place at 1155 Market Street, 4th Floor Conference Room from 5:30-7:30pm.

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special

Citizens' Advisory Committee
Power Subcommittee
SPECIAL MEETING

October 9, 2007

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair
Nick Carlin
Ken Cleaveland
Winchell Hayward
Aaron Israel
Steve Lawrence
David Pascal

Staff: Jim Chien

10-11-07 P03:00 AM

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Order of Business

1. Call to order

2. Approval of minutes of September 2007 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentations & Discussions

   Melissa Capria, Climate Action Coordinator for the San Francisco Department of the Environment will give an overview of the current San Francisco Climate Plan with a focus on energy issue.

6. Adjournment

For presentation materials, please contact Jim Chien, jchien@sfwater.org, 415-554-3244.

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SUSAN LEAL
GENERAL MANAGER

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October 29, 2007

Notice of Cancellation

November 6, 2007 Power Subcommittee Meeting

Of the SFPUC Citizens' Advisory Committee

The regular meeting of the Power Subcommittee of the San Francisco Public Utilities Commission Citizens' Advisory Committee scheduled for Tuesday, November 6, 2007 at 5:30 pm at 1155 Market, 4th Floor Conference Room, has been cancelled.

The next regular monthly meeting of the Power Subcommittee will be held on Tuesday, December 4, 2007 at 5:30p.m. at 1155 Market Street, 4th Floor Conference Room.

Thank You,

Betsy L. Rhodes
blauppe@sfwater.org

10-29-07 | 2:00

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GENERAL MANAGER

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Notice of Postponement

The January 1, 2008 Meeting of the Power Subcommittee has been postponed to January 17, 2008.

The Regular Meeting of the Power Subcommittee of the San Francisco Public Utilities Commission Citizens' Advisory Committee scheduled for Tuesday, January 1, 2008, at 5:30pm at 1155 Market, 4th Floor Conference Room, has been postponed.

The January meeting of the Power Subcommittee will be held on Thursday, January 17, 2008 at 5:30 p.m. at 1155 Market Street, 11th Floor Conference Room A.

Please make note of the different day and meeting location.

Happy Holidays,

SFPUC Staff

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Notice of Change of Date for February 2008 Meeting of the SFPUC Citizens' Advisory Committee's Power Subcommittee

The February 2008 meeting of the SFPUC Citizens' Advisory Committee's Power Subcommittee, scheduled for Tuesday, February 5, 2008, has been rescheduled to Tuesday, February 12, 2008 because of the primary election on February 5th.

The February 12, 2008 meeting will take place from 5:30 to 7:30 p.m., at 1155 Market Street, 4th Floor Conference Room. The agenda for that meeting will be made available next week.

Thank you.

James V. Marks
SFPUC

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Citizens' Advisory Committee
Power Subcommittee
MEETING

February 12, 2008

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1155 Market Street, San Francisco
4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany, Chair
Aaron Israel
Steve Lawrence
Nick Carlin
Winchell Hayward

Staff: Jim Marks

Agenda

Disability Access

The CAC Power Subcommittee meeting will be held in the Conference Room on the 4th Floor of the SFPUC Offices located at 1155 Market Street. (between 7th & 8th Streets) The Conference Room is wheelchair accessible. The nearest accessible BART station is the Civic Center Station at United Nations Plaza and Market Street. Wheelchair accessible Muni bus lines serving this location are: 5, 6, 7, 9, 21, 66, and 71. Metro Lines are F, J, K, L, M and N. For information about accessible Muni services call (415) 923-6142.

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Lobbyist Registration and Reporting Requirements

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Order of Business

1. Call to order

2. Approval of minutes of January 2008 meeting (see attached draft minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentations & Discussions

   Karen Kubick and John Doyle of the Power Enterprise will update the members of the subcommittee on tidal power and other renewable energy projects and plans.

6. Adjournment

For presentation materials, please contact Jim Marks, jmarks@sfwater.org, 415-554-3237.

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Citizen's Advisory Committee
Power Subcommittee

Draft Minutes
May 6, 2008
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room

Members

Kimia Mizany – Chair
Aaron Israel
Nick Carlin
Steve Lawrence
Winchell Hayward

Members present: Kimia Mizany (Chair), Steve Lawrence, Nick Carlin, Winchell Hayward, Aaron Israel

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Members not present:

Staff:
Jim Chien

Members of the Public: Judy West, Joan Girardot, Marisa Capria, Richard Hansen

ORDER OF BUSINESS

Roll Call

1. **Call to Order**
   Kimia Mizany, Chair, called the meeting to order at 5:40 pm.

2. **Approval of Minutes**
   Minutes of meeting of April 1, 2008 were adopted unanimously with revisions: First paragraph in the Presentation and Discussion section line 7: "Solar One can generate power at 17 cents per kilowatt, the lowest cost photovoltaic installation in the US," was amended to "Solar One can generate power at 17 cents per Kilowatt hour, the lowest cost Solar Thermal installation in the US."

3. **Announcements**
   Mr. Hayward asked to hear about a proposal to take more water from the Tuolumne River.

4. Public Comment
No public comment.

5A. Presentations and Discussion:

Mr. Crowfoot who is the Director of the Mayor's Climate Protection Initiatives began by introducing the Initiatives program. He said the program intends to reduce carbon emission under the 1990 standard by 20%. In addition, the initiatives are working toward making San Francisco a sustainable city and provide better quality of life to residents. The main focuses of the initiatives are energy and transportation issues.

Mr. Crowfoot explained the City and County of SF adopted a local Climate Action Plan in 2004. The plan not only abides by the Kyoto Protocol, but also sets higher goals for San Francisco. He pointed out that 51% of the 1990 carbon emissions were contributed by transportation. Forty-seven percent of the emissions came from people who drove cars. Among them, 25% were people who drove in and out of, or just passed through, San Francisco. The rest of the emissions were contributed by people who drove in San Francisco. Only 1 % of the emissions came from the City fleet and 2% from regional public transportation. It's essential to make San Francisco's Public transportation more efficient, accessible and dependable. So, more people will use the public transit.

Mr. Crowfoot said that the other project he is working on is the Transit Effectiveness Project (TEP). He described that the TEP project takes existing transit resources to re-program and to manage the current system more effectively. He elaborated that 75% of the daily Muni riders rode only 10 of the most popular bus and light rail lines in the city. Proposed plans included streamlining these 10 lines and re-routing them to provide better service.

Mr. Crowfoot continued that he is working on a Pedestrian Master Plan to improve pedestrian safety and the walking environment, so people will feel safe to walk in the city and more people will get out of their cars. He said that in the next couple years, he expects bike lanes to be doubled. More people will use bikes instead of driving.

Mr. Crowfoot emphasized that many large SF companies are still not taking advantage of the federal tax benefit program - Commuter Check. He is now coordinating with San Francisco Chamber of Commerce to explore the possibility of requiring all San Francisco employers to provide Commuter Check benefits to their employees.

Crowfoot said San Francisco is currently working with a federally sponsored pilot program on congestion pricing. The program explores the feasibility of charging

a higher fee for people to drive in congested areas of the city during the most congested time of the day. He reported that San Francisco received a $25 million federal grant to replace 25 percent of its old meters with smart meters. These smart meters can take credit cards and change parking fees during different times of the day. Drivers will be able to check the availability of parking spaces on certain streets.

Mr. Crowfoot moved on to carbon emissions from buildings. He explained that 49% of carbon emissions in San Francisco are related to buildings. The breakdown is: 19% from residential buildings, 16% from commercial buildings, 10% industrial and 4% from municipal buildings.

Mr. Crowfoot stressed that the Mayor's Green Building legislation sets the highest green-building standards in the country for large residential and commercial buildings. Even with building retrofit projects, it requires more energy efficiency, less toxic material, and more conservation. He indicated that this legislation should pass soon. In addition, he added, improving energy efficiency of current municipal buildings and big energy-efficiency retrofit projects, such as the SFO energy-efficiency project, are also in progress. Mr. Crowfoot stressed that the Mayor just sent out an executive order asking each city department to reduce energy consumption by 10%.

Mr. Crowfoot indicated that he is working on outreach to different sectors such as night clubs and entertainment venues in the city and helping to promote free energy audits provided by the San Francisco Department of the Environment. .

Questions and discussion:
Because some City departments do not pay the full cost of their energy, the SFPUC can't secure bond money. What is the incentive for other City departments to save energy if they don't even have to pay for their energy usage? Question about the financing mechanism for the Solar Incentive Pilot program: how money is used and if it's appropriate? Is Solar ever going to replace the peekers?

5B. Discussion and possible action for the Power Subcommittee to support PUC's pilot Solar Incentive Program.

Joan Girardot asked the members of the committee to disclose personal ties to the solar industry. Ms. Mizany disclosed the she works for Solar Depot.

Mr. Lawrence said the money for the Solar Incentive Pilot Program could be and should be used for the water system program. Mr. Israel argued that the SFPUC is no longer a water agency, but also a power agency.

Resolution to urge the full CAC and the board to support the PUC pilot incentive program passed with one opposing vote: Steve Lawrence (against), for: Kimia Mizany, Nick Carlin, Aaron Israel and Winchell Hayward.

6. The meeting adjourned at 7:45 PM.

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Citizens' Advisory Committee
Power Subcommittee

June 3, 2008

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair Aaron Israel
Nick Carlin Steve Lawrence
Winchell Hayward

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Staff: Jim Chien

Agenda

Disability Access
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Order of Business

1. Call to order

2. Approval of minutes of May 2008 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation & Discussion:

   Dana Haasz who is Commercial Division Manager of the SFPUC's Water Program will give a presentation on the proposed Sustainable Civic Center Program. She will focus on the energy aspects of the program.

6. Adjournment

For presentation materials, please contact Jim Chien, jchien@sfwater.org, 415-554-3244

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Citizen's Advisory Committee
Power Subcommittee

Minutes
June 3, 2008
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room

Members

Kimia Mizany – Chair
Aaron Israel
Nick Carlin
Steve Lawrence
Winchell Hayward

Members present: Kimia Mizany (Chair), Nick Carlin, Aaron Israel

Members not present: Steve Lawrence, Winchell Hayward

Staff: Jim Chien

Members of the Public: Ed Dieraut

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ORDER OF BUSINESS

Roll Call

1. **Call to Order**
   Kimia Mizany, Chair, called the meeting to order at 5:40 pm.

2. **Approval of Minutes**
   Minutes of meeting of May 6, 2008 were adopted unanimously.

3. **Announcements**
   Chair Mizany announced that the SF PUC Solar Pilot Program passed first reading at the board and it will go for second reading. In addition, she talked about one of the Combustion Turbine project alternatives that had never been considered before. This alternative proposes retrofitting of existing 3 Mirant diesel peakers. This option costs only 45 – 50 million as compared to the 270 million proposed plan and produce less pollution. There is discussion of available options as if the Trans Bay Cable might suffice demand.

4. **Public Comment**
   No public comment.

5. Presentations and Discussion:

SFPUC Water Conservation Manager Dana Haasz gave an overview of the proposed Sustainable Civic Center District project and Project Manager of SFPUC Power Enterprise Masoud Vafaei was onsite to answer energy related questions.

Ms. Haasz opened the presentation by pointed out key principals of the project are: to maximize efficiency, meet remaining resource demands, reduce waste, create vibrant, accessible and safe municipal space. She said that the project idea generated from efficiency planning for the 525 Golden Gate building. Why not expands it to buildings to the Civic Center area?

Ms. Haasz explained that the project goals are to reduce 80% of potable water use, 45 % wastewater discharge, 33 % annual energy use and 4450 tons of carbon reduction and 35% plus peak power demand met by renewable. The goals for water efficiency are to exceed 20% demand reduction, 80% potable water use reduction and 45% wastewater discharge reduction. The strategies to achieve are: high efficiency fixture, climate appropriate landscaping, and rain/storm/recycled ground water for non-potable uses.

Ms. Haasz added that water management can include rainwater collection, reflecting pond to collect and retain of surface water, subsurface storage tank, water filtration and redistribution of grey water. She demonstrated photos of retention ponds in Berlin and Paris, and Green roof in Chicago. Mr. Vafaei added that green roof will also be use as a showcase of this project.

Ms Haasz elaborated the goals for energy: to exceed 35% peak energy demand provided by solar and wind power; 33% annual electric use reduction (15% energy efficiency improvements and 8% solar and wind generation) and 30% steam heat and natural gas reduction. The strategies for efficiency improvements are through lighting, heating, cooling and office equipment, Solar PV, wind turbines, energy from hot condensation/steam loop and geothermal.

For the project's transportation goals, Ms. Haasz said, are to exceed 50% reduction in Bay area's Green House Gas emissions from transportation including increase transit ridership, pedestrian/bike activities, car/bike share opportunity, encourage high density development on under-used lots and promote smart parking policies.

How to achieve that? She emphasized that the strategies are: street design, pedestrian only spaces, new fare policies encouraging off-peak use, enhance transit stop facilities; expanded rider share opportunity/technology and policy solutions for parking efficiency and turnover.

Ms Haasz said education and interaction is an important component of this project. There are proposed theater, restaurants, and interactive/playful/interesting education

activities. She stressed the important of making the area a destination for resident and visitors, showcase of green practices.

There were a few questions on the green roofs, water conservation, BART/MUNI connection, steam loop, excluded power grid and timing for energy work. Mr. Vafaei described the condition of the steam loop and upgrade ideas. The exclusion of the power grid due to eight out of ten building estimated solar generation leading to no surplus. He said that the energy evaluations are planned to start this coming fiscal year.

In building heating, he mentioned that the current plan is to repair the existing steam loop as the source of heating energy for the buildings and the solar discussions have been around installation of roof mounted Photo Vortexes due to the continuous demand for electricity over the entire year not just during the heating season.

Chair Mizany asked whether there is any plan to include solar thermal for supplying hot water to buildings as a demonstration/education project. Mr. Vafaei said that the educational elements at the Education Center have not yet been developed, however a solar water heating demonstration idea could be included in the mix of ideas for the education center planning.

6. The meeting adjourned at 7:30 PM.

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Citizens' Advisory Committee
Power Subcommittee

July 1, 2008

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

06-25-08P12:20 RCVD

Kimia Mizany – Chair Aaron Israel
Nick Carlin Steve Lawrence
Winchell Hayward

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Staff: Jim Marks

Agenda

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Order of Business

1. Call to order

2. Approval of minutes of June 2008 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation & Discussion:

   a. Update on Power Enterprise Activities-- Barbara Hale, Assistant General Manager, SFPUC Power Enterprise

   b. Discussion on SFPUC Combustion Turbine (CT) Project – Joshua Arce, Executive Director, Brightline Defence Project

6. Adjournment

Additional materials not listed as explanatory documents on this agenda, if any, that are distributed to the SFPUC Citizens' Advisory Committee (CAC) Power Subcommittee prior to or during the meeting in connection with any agenda item will be available to the public for inspection and copying in accordance with Government Code Section 54954.1 and Sunshine Ordinance §§ 67.9, 67.28 (b) & 67.28 (d) at 1155 Market Street, 11th Floor.

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Citizen's Advisory Committee
Power Subcommittee

Draft Minutes
July 1, 2008
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room

Members

Kimia Mizany – Chair
Aaron Israel
Nick Carlin
Steve Lawrence
Winchell Hayward

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Members present: Mizany (Chair), Lawrence, Hayward, Carlin, Israel

Staff: Jim Marks

Members of the Public: Joshua Arce, Angelo Festa, Cody Taylor, Joe Boss, Dave Massen, Forrest DeGraaf, Joan Girardot, Oliver Burke

ORDER OF BUSINESS

Roll Call

1. **Call to Order**
   Kimia Mizany, Chair, called the meeting to order at 5:42 pm.

2. **Approval of Minutes**
   Minutes of meeting of June 3, 2008 were adopted unanimously with one correction: Public member present was Ed Dierauf.

3. **Announcements**
   Mr. Lawrence reminded the members that the Board of Supervisors currently is considering a charter amendment dealing with the takeover of PG&E.

4. **Public Comment**
   No public comment; members of the public introduced themselves.

5. **Presentations and Discussion:**

   a. **Update on Power Enterprise Activities,** Barbara Hale, Assistant General Manager for Power and Karen Kubick, Power Infrastructure Manager

   1) GoSolarSF Program – Ms. Hale provided a status update on the GoSolarSF Program; stated that the program had gone live that very day. GoSolarSF

piggybacks onto the California Solar Initiative Program administered by PG&E. Ms. Hale outlined the range of incentive levels from $3,000 to $6,000 available for residential property owners. There are incentives for businesses and non-profits, and low-income SF homeowners could receive an additional $5,000. Mr. Hayward inquired when the money would be paid. Ms. Hale said that would occur after the interconnection with PG&E is completed. Mr. Carlin asked whether the workforce development program is in place. Ms. Hale responded that the program is in place, but it has not yet offered solar installer training.

2) Ms. Hale was asked about the status of Local Power's contract for Community Choice Aggregation (CCA). Ms. Hale explained that two bids had been received for the CCA contract. Power Enterprise staff presented the bids to the Commission at their most recent meeting. Staff recommended hiring Local Power and GES for different parts of the contract, because they possess complementary skills. Commission directed staff to task Local Power and GES to perform evaluation but not implementation activities. Ms. Mizany asked about the position of CCA director. Ms. Hale reported that a request for applications for the director position had been reissued. If there are still difficulties hiring a director, Ms. Hale will then employ the services of an executive search firm.

Members of the committee asked for more information about the ballot initiative on public power currently being considered by the BOS. Ms. Hale provided a brief report on its current status, and the relationship of public power to CCA. These would likely be mutually exclusive programs, since CCA envisions using PG&E infrastructure to transmit and distribute power, whereas public power would assume control of that infrastructure. Mr. Israel asked what staff think. Ms. Hale responded that the Commission has not taken a position on public power. Staff can endorse a factual statement that jurisdictions with public power do offer lower rates. Public power entities are not required to own their own generation assets; they can use a mix of owned and purchased assets.

b. CT Project

Mr. Joshua Arce, Executive Director of the Brightline Defense Project, described his efforts to work with a coalition of organizations and interests to oppose the sitting of the City's combustion turbine (CT) peaker plants. Recently, in a change of position, the California Independent System Operator (CalISO) assured Mayor Newsom that the completion of the Transbay Cable (TBC) project would result in CalISO's withdrawal of the RMR status for Potrero Unit 3, leading to its shutdown. The current plan under consideration is to retrofit the existing Potrero units 4, 5 and 6 to run on both diesel and natural gas. Mr. Arce asserted that Mr. Ed Harrington, SFPUC General Manager, had said that the retrofitted units would be cleaner than the CTs. Mr. Arce stated that the goal of the coalition would be to get the retrofitted units shut down as soon as possible. He reported that the BOS would vote on the CTs on July 15 and that the BOS is considering a resolution supporting a transmission-only solution. Ms. Mizany asked what the SFPUC is doing about the Mayor's charge to explore alternatives to the CTs. Staff are drafting a resolution to roll back the Commission's 10/07 direction to proceed with the CTs. Original direction to site the CTs came from the City's Electricity Resource Plan adopted in December 2002.

Mr. Lawrence asked about what happened to "in-City" generation? Mr. Joe Boss, member of the Power Plant Task Force, responded that the original direction from the ISO was to ensure 200 megawatts (mW) of generation capacity north of the Martin substation in northern San Mateo County. SFO wanted a 50-mW unit to provide backup power to the Airport. Several sites were considered for the remaining three units (150 mW).

Ms. Hale noted that the City's policy objective has always been to shut down old, in-City, fossil-fuel generation. The issue is what will replace Potrero 4, 5 and 6. Mr. Carlin asked why these units would be needed after the Trans-Bay Cable (TBC) is in place. Ms. Hale and Mr. Arce explained the N – 1 – 1 scenario, that is, what must be in place to make up for the loss of two different transmission sources into San Francisco. Mr. Boss stated that CalISO's standards are based on Federal Energy Regulatory Commission (FERC) standards. These require another transmission source or some amount of in-City generation.

Ms. Mizany asked whether alternatives to retrofitting are being considered. Ms. Hale summarized the alternatives under consideration: (1) three City CTs + one at the airport; (2) transmission only, such as Newark – SF or Moraga – Potrero; (3) retrofitting existing Mirant peakers (Mirant has done a feasibility study of the latter alternative. When these units lose their "reliability-must-run" (RMR) status, Mirant will shut them down.); (4) replacing the existing peakers with the City's CTs.

Mr. Boss noted that the value of the real estate at Pier 70 needs to be factored into these alternatives; it's a prime redevelopment site.

Mr. Arce further clarified his previous statement that the City's CTs would be dirtier by noting that they would run about 1900 hours a year, whereas the retrofitted Mirant peakers would run for only a few hundred. According to Ms. Kubick, SFPUC Infrastructure Manager, on a per-kilowatt-hour basis, the City's CTs would produce less pollution. According to CalISO, the historical run times of the peakers would not change.

Plug-In Electric – Mr. Israel asked about whether the City is planning to establish plug-in electric stations at garages. Ms. Hale responded that the Mayor is actively pursuing this.

CCA Budget – Mr. Lawrence stated he could not find the '08-'09 CCA budget as adopted. Chair requested staff to provide this information, which was provided to the chair and members two days after the meeting.

6. The meeting adjourned at 7:50 PM.

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32.2582
5/08

Citizens' Advisory Committee
Power Subcommittee

August 5, 2008

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair
Nick Carlin
Winchell Hayward
Aaron Israel
Steve Lawrence

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Staff: Jim Chien

Agenda

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Order of Business

1. Call to order

2. Approval of minutes of July 2008 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation & Discussion:

   a. Karen Kubick, who is the SFPUC Power Enterprise Infrastructure Manager, will give a brief update on the newly proposed Combustion Turbines (Peakers) alternatives (10 -15 minutes).

   b. The Subcommittee will discuss developing suggestions/recommendations to the new SFPUC Commission on a strategic plan for the Power Enterprise, and the future direction of a City Energy Plan (90 minutes).

   c. Discussion and possible action to move next regular meeting from September 2 to September 9 due to Labor Day holiday. (5 minutes)

6. Adjournment

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Citizen's Advisory Committee
Power Subcommittee

Draft Minutes
October 7, 2008
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room

Members

Kimia Mizany – Chair
Aaron Israel
Nick Carlin
Steve Lawrence
Winchell Hayward

Members present: Mizany (Chair), Hayward, Lawrence, Israel

Staff: Jim Chien

Members of the Public: John Rizzo

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ORDER OF BUSINESS

Roll Call

1. **Call to Order**
   Kimia Mizany, Chair, called the meeting to order at 5:40 pm.

2. **Approval of Minutes**
   Minutes of meeting of August 5, 2008 were adopted unanimously.

3. **Announcements**
   Mr. Lawrence announced that today is his last meeting with the Power committee

4. **Public Comment**
   No public comment.

5. **Presentations and Discussion:**

a. Discussion of the implications to the City and SFPUC if Prop H (Public Power Initiative) passes in November, and how it will interface with the CCA program under development now. (see attached Prop H)

Chair Mizany asked how Proposition H came about? Mr. Rizzo said that the ultimate goal of Prop H is to address the global warming issue. Prop H sets a higher renewable energy goal than the existing Climate Action Plan. Prop H would be a mandate in City Charter for 100% Clean Energy by 2040 and it commissions SFPUC (San Francisco Public Utilities Commission) to study how to best meet the goals.

Mr. Rizzo continued that if Prop H passed, SFPUC would hire consultants to study options and to come up with recommendations to the SFPUC Commission. The City can decide whether to buy PG&E's old grid or use existing facilities to build new power lines. There are several options. The city could own and provide power (public power), the city could let PG&E retain the transmission and distribution grid and deliver power, or some combination of both options.

Chair Mizany asked if there would be a deadline to finish the study? Mr. Rizzo responded that the city would need to begin the study in 180 days.

Mr. Lawrence asked what the price tag for renewable energy would be? Mr. Rizzo responded that all public power agencies' rates in California are lower than PG&E's. There was a discussion of what the real cost of public power is?

Ms. Mizany emphasized that if we really want to make impact on climate change, we have to start with energy issues and look at concrete options to meet climate-action goals if Prop H does not pass.

Mr. Israel said that Prop H asks the question, "Should we study public power? It's a call for study. He was puzzled why the Mayor's office doesn't support it.?

Mr. Lawrence was concerned that the SFPUC already has lots of projects on its plate, such as the WSIP projects and Waste Water Master Plan.

b. Discussion of Power Subcommittee's priority issues.
Chair Mizany asked the committee members to complete their individual priorities assignment by October 21, 2008.

6. The meeting adjourned at 6:31 PM.

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Citizens' Advisory Committee
Power Subcommittee

November 10, 2008

***PLEASE MAKE NOTE OF THE DIFFERENT DATE**

1155 Market Street, San Francisco
4th Floor Conference Room
5:30- 7:30pm

10-31-08P01:20 RCVD

Members

Kimia Mizany - Chair Winchell Hayward
Nick Carlin Aaron Israel

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Staff: Jim Chien

AGENDA

Disability Access

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1. Call to order

2. Staff Report and Presentation: Update on activities of the Power Enterprise regarding energy efficiency and an outlook for the coming year, Power Enterprise

3. Public comment-matters within Subcommittee's scope, not on today's agenda

4. Discussion and possible action to identify the Power Subcommittee's priorities for 2009.

5. Discussion about recruiting new members to Power Subcommittee.

6. Announcements by members and reports on other meetings

7. Adjournment

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Citizen's Advisory Committee
Power Subcommittee

Draft Minutes
November 10, 2008
5:30 p.m. – 7:30 p.m.

1155 Market Street
Fourth Floor Conference Room

Members

Kimia Mizany – Chair Aaron Israel
Winchell Hayward Nick Carlin

Members present: Mizany (Chair), Hayward, Israel, Carlin

Staff: Jim Chien

Members of the Public:

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ORDER OF BUSINESS

Roll Call

1. Call to Order
Kimia Mizany, Chair, called the meeting to order at 5:40 pm.

2. Staff Report and presentation: Update on activities of the Power Enterprise regarding energy efficiency and outlook for the coming year.

Terry O'Sullivan, who is the energy specialist for the SFPUC's Power Enterprise, began his presentation by touching on his energy experience and his role at the Power Enterprise. He also briefly talked about energy deregulation in early 2000 and the state PUC adopted Energy Efficiency Plan for 2003 and 2006.

He explained who are the San Francisco Municipal Electricity Users and percentage of the energy used. He said Power Enterprise has been trying to work with large departments as well as general fund departments on energy efficiency.

Mr. O'Sullivan introduced staff of the Power Enterprise and pointed out that staff constraint has been an issue for the Power Enterprise. Mr. Carlin requested for a copy of the Power Enterprise's organization chart for reference.

Mr. O'Sullivan said that the Power Enterprise has tried to accelerate big energy efficiency projects such as projects at the Airport and the Port. One of the challenges for Power Enterprise is working with other city departments whose focus isn't energy efficiency. Therefore, SFPUC has to provide services such as energy audit to them, he said. There was a discussion of fair utilities charge among all the municipal users who are general fund or enterprise departments as well as energy bond.

Mr. O'Sullivan highlighted some of the Power Enterprise's active projects such as Hall of Justice, Broadway Tunnel partnering with DPW, LED demonstration project at the Main Library, SF Airport (efficient boiler) and City Hall lighting project. There is also pending legislature on developing retrofit guidelines to support proposed ban on older florescent lamps. He said that another challenge is to come up with a new financing plan for future projects.

3. Public Comment-matters within Subcommittee's scope, not on today's agenda.
No public comment.

4. Discussion and possible action to identify the power Subcommittee's Priorities for 2009.
Moved to next meeting.

5. Discussion about recruiting new members to Power Subcommittee.
Mr. Carlin said he had a good candidate and tried to get him on Power Subcommittee. Chair Mizany encouraged everyone to recruit members.

6. The meeting was adjourned at 7:32 PM.

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Citizens' Advisory Committee
Power Subcommittee

December 2, 2008

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair
Nick Carlin
Erwin Tanjuaquio
Aaron Israel
Winchell Hayward

Staff: Jim Chien

Agenda

Disability Access

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Order of Business

1. Call to order

2. Approval of minutes of October and November 2008 meetings (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation & Discussion: Power Subcommittee Priority Topics for 2009

6. Adjournment

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GENERAL MANAGER

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Citizens' Advisory Committee
Power Subcommittee

January 6, 2009

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair Aaron Israel
Nick Carlin Winchell Hayward
Erwin Tanjuaquio

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Staff: Jim Chien

Agenda

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Order of Business

1. Call to order

2. Approval of minutes of December 2008 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation & Discussion: Power Enterprise's 2009/2010 proposed budget by Barbara Hale, Assistant General Manager of the Power Enterprise, SFPUC

6. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

February 10, 2009

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair Aaron Israel
Nick Carlin Winchell Hayward
Erwin Tanjuaquio

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Staff: Amy Sinclair

Agenda

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Order of Business

1. Call to order

2. Approval of minutes of January 2009 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation & Discussion: Michael Campbell, director of the Community Choice Aggregation (CCA) will give a presentation on the status of the program.

6. Finalization of the Power Subcommittee Priorities List

7. Adjournment

Additional materials not listed as explanatory documents on this agenda, if any, that are distributed to the SFPUC Citizens' Advisory Committee (CAC) Power Subcommittee prior to or during the meeting in connection with any agenda item will be available to the public for inspection and copying in accordance with Government Code Section 54954.1 and Sunshine Ordinance §§ 67.9, 67.28 (b) & 67.28 (d) at 1155 Market Street, 11th Floor.

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COMMISSIONER

ED HARRINGTON
GENERAL MANAGER

82, 2582

/3/09
cancelled

03/03/09 Citizens' Advisory Committee's Power Subcommittee Meeting

Notice of Cancellation of Cancellation and Rescheduling

Notice of Cancellation and Rescheduling
March 3, 2009
Citizens' Advisory Committee's Power Subcommittee Meeting Cancelled and

Rescheduled to March 10, 2009

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee's Power subcommittee, scheduled for Tuesday, March 3, 2009 at 5:30 p.m. at 1155 Market St., 4th Floor Conference Room, has been cancelled. This meeting has been rescheduled for Tuesday, March 10, 2009 at 5:30 PM at 1155 Market Street, 4th Floor Conference Room.

Jim Marks, Staff

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2.2582
1
7/09

Citizens' Advisory Committee
Power Subcommittee

April 7, 2009

1155 Market Street, San Francisco

4th Floor Conference Room
5:30- 7:30pm

Members

Kimia Mizany – Chair
Nick Carlin
Erwin Tanjuaquio
Doug Cain
Aaron Israel
Winchell Hayward
Walt Farrell

Staff: Amy Sinclair

04-03-09A08:16 RCVD

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Agenda

Disability Access

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Order of Business

1. Call to order

2. Approval of minutes of March 2009 meeting (see attached minutes)

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. **Action Item:** Discussion and approval of Power Subcommittee's Priorities List for submission to the full CAC. (See attached Draft Priorities List.)

6. Review of Power Enterprise submissions to SFPUC Commission on budget request and Electricity Resource Plan

7. Adjournment

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ED HARRINGTON
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SF
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Notice of Cancellation

The Regular Meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee's Power Subcommittee, scheduled for Tuesday, June 2, 2009, 5:30 p.m., at 1155 Market, 4th Floor Conference Room, has been cancelled. The subcommittee's July meeting will take place on Tuesday, July 14, 2009. (Please note that the July meeting is scheduled for the **second** Tuesday of the month.)

06-29-09A10:45 RCVD

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82.2582
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Citizens' Advisory Committee
Power Subcommittee

AGENDA

July 14, 2009
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

Members
Kimia Mizany – Chair
Doug Cain
Nick Carlin
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Ben Chan

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ORDER OF BUSINESS

1. Call to order
2. Approval of minutes of May 12, 2009 meeting
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation by Angela Patane, Program Manager SFPUC GoSolar SF, to update members of the subcommittee on the progress of GoSolar SF program over the last year.

6. Demonstration and overview of www.sf.solarmap.org, an interactive online map created by San Francisco Department of the Environment that shows solar installations throughout San Francisco.

7. Discussion of Citywide loan program for solar and energy efficiency, and possible resolution in support.

8. Adjournment

Additional materials not listed as explanatory documents on this agenda, if any, that are distributed to the SFPUC Citizens' Advisory Committee (CAC) Power Subcommittee prior to or during the meeting in connection with any agenda item will be available to the public for inspection and copying in accordance with Government Code Section 54954.1 and Sunshine Ordinance §§ 67.9, 67.28 (b) & 67.28 (d) at 1155 Market Street, 11th Floor.

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ANSON B. MORAN
COMMISSIONER

ED HARRINGTON
GENERAL MANAGER

2.2562
1
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cancelled

Notice of Postponement

The September 1, 2009 Meeting of the CAC Power Subcommittee has been postponed to September 15, 2009.

The Regular Meeting of the Power Subcommittee of the San Francisco Public Utilities Commission Citizens' Advisory Committee scheduled for Tuesday, September 1, 2009 at 5:30 p.m. at 1155 Market, 4th Floor, has been postponed.

The September meeting of the Power Subcommittee will instead be held on Tuesday, September 15, 2009 at 5:30 p.m. at 1155 Market Street, 4th Floor.

Please make note of the different day.

Thank you,

Christina Kerby
SFPUC Communications

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Citizens' Advisory Committee
Power Subcommittee

AGENDA

September 15, 2009*
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.
**Note this meeting was rescheduled from September 3, 2009*

Members

Nick Carlin - Chair
Doug Cain
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Jim Chien

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ORDER OF BUSINESS

1. Call to order

2. Approval of minutes of July 14, 2009 meeting

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation: Winchell Hayward, Member of the CAC Power Subcommittee, regarding the potential for hydro-electric power generation at O'Shaughnessy Dam.

1. Issue: A study of whether fish release water could be used for hydro-electric power generation at O'Shaughnessy Dam
2. Desired Results: Recommend that SFPUC endorse this project and obtain an engineer to begin further study / design
3. Action: Forward to Full CAC with recommendation of endorsement

6. Discussion of future agenda items.

7. Adjournment

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COMMISSIONER

ED HARRINGTON
GENERAL MANAGER

Citizens' Advisory Committee
Power Subcommittee

AGENDA

October 6, 2009
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

Members

Nick Carlin - Chair
Doug Cain
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Amy Sinclair

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ORDER OF BUSINESS

1. Call to order

2. Approval of minutes of July 14, 2009 meeting* *(note that there was no meeting in August and due to a lack of quorum at the September meeting, no minutes were produced)*

3. Announcements by members and reports on other meetings

4. Public comment—matters within Subcommittee's scope, not on today's agenda

5. Presentation: Mike Campbell, Director of Community Choice Aggregation (CCA), SFPUC Power Enterprise. Quarterly update on the status of the San Francisco's Community Choice Aggregation program.

6. Discussion of future agenda items.

7. Adjournment

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ED HARRINGTON
GENERAL MANAGER

92.2582
2/1/09

Citizens' Advisory Committee
Power Subcommittee

AGENDA

December 1, 2009
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

Members

Nick Carlin - Chair
Doug Cain
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Charles Sheehan

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ORDER OF BUSINESS

1. Call to order
2. Approval of minutes of October 6, 2009 meeting
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. GoSolarSF Update by Charles Sheehan
6. Presentation by Winchell Hayward on October 7, 2009 visit to Hetch Hetchy and project ideas for hydroelectric power generation.

7. Discussion of future agenda items.

8. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

AGENDA

January 5, 2010
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

12-29-09P12:58 RCVD

Members

Nick Carlin - Chair
Doug Cain
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Charles Sheehan

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ORDER OF BUSINESS

1. Call to order
2. Approval of minutes of December 1, 2010 meeting
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Fish-water release presentation by Russell Stepp
6. Discussion of future agenda items.

7. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

AGENDA

February 2, 2010
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

Members

Nick Carlin - Chair
Doug Cain
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Charles Sheehan

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ORDER OF BUSINESS

1. Call to order
2. Approval of minutes of January 5, 2010 meeting
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. CleanPowerSF Update (the City's CCA Program)
6. Resolution urging the SFPUC to explore installation of small hydro turbine at Hetch Hetchy fish release

7. Discussion of future agenda items.

8. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

AGENDA

July 6, 2010
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

Members

Nick Carlin - Chair
Doug Cain
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Jim Chien

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ORDER OF BUSINESS

1. Call to order
2. Approval of minutes of June 1, 2010
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. CleanPowerSF Presentation – Mike Campbell
6. Introduction and Presentation from Stephen Bjorgan – Seeking Membership to Power CAC Subcommittee

7. Discussion of future agenda items.

8. Adjournment.

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Notice of Cancellation

October 5, 2010
Citizens' Advisory Committee
Power Subcommittee Meeting

The Regular Meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee Power Subcommittee, which was originally scheduled for **Tuesday, October 5, 2010, at 5:30 p.m. at 1155 Market Street, 4th Floor Conference Room**, has been cancelled.

The next monthly meeting has been rescheduled for **Tuesday, November 2, 2010**, at 5:30 p.m. at 1155 Market Street, 4th Floor Conference Room.

-SFPUC Staff

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Notice of Cancellation

November 2, 2010
Citizens' Advisory Committee
Power Subcommittee Meeting

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The next monthly meeting has been rescheduled for **Tuesday, December 7, 2010**, at 5:30 p.m. at 1155 Market Street, 4th Floor Conference Room.

-SFPUC Staff

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Citizens' Advisory Committee
Power Subcommittee

AGENDA

December 7, 2010
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

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Members

Doug Cain – Chair
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Benito Capuyan

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ORDER OF BUSINESS

1. Call to order
2. Approval of minutes of September 14, 2010
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Presentation – Electricity Resource Plan
6. Discussion of future agenda items.

7. Adjournment.

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Citizens' Advisory Committee
Power Subcommittee

AGENDA

January 4, 2011
1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:30 p.m.

Members

Doug Cain – Chair
Walt Farrell
Winchell Hayward
Aaron Israel

Staff: Charles Sheehan

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ORDER OF BUSINESS

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2. Approval of minutes of September 14, 2010
3. Announcements by members and reports on other meetings
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Presentation – Electricity Resource Plan
6. Discussion of future agenda items.

7. Adjournment.

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Citizens' Advisory Committee
Power Subcommittee

Draft Minutes

February 7, 2011

1155 Market Street, San Francisco
4th Floor Conference Room
5:30 - 7:00 pm

Members

Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

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draft

Staff: Ben Chan

Members present: Cain, Buendia, and Farrell

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ORDER OF BUSINESS

1. **Call to order**
   Chair Doug Cain called the meeting to order at 5:35 PM.

2. **Approval of Minutes of December 6, 2011**
   The committee approved the minutes.

3. **Public Comments – matters within Subcommittee's scope, not on today's agenda**
   None.

4. **Report from the chair**
   Mr. Cain spoke about his request that a presentation be made to the Committee on the applicability of Google's technology that could offer San Francisco a power distribution system that also carries broadband internet signal.

5. **Staff report**
   John Doyle of Power Enterprise briefed the committee on some of the on-going projects; specifically, Pier 27, hydroelectric power for

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Mayor

Anson Moran
President

Art Torres
Vice President

Ann Moller Caen
Commissioner

Francesca Vietor
Commissioner

Vince Courtney
Commissioner

Ed Harrington
General Manager

University Mound, hydroelectric power for Calaveras reservoirs, wind power in Twin Peaks and other energy efficiency projects.

Pier 27 – It is a cruise ship terminal for the upcoming America's Cup event. SFPUC is working with the event organizer through the Mayor's Office. No agreement has yet been made as to what kind of energy SFPUC could provide or what potential fees might be. A solar array on top of the pier will be installed as a long-term project.

The 240 kilowatt hydroelectric plant to be built at the University Mound Reservoir will take advantage of gravity-driven water coming from the Crystal Spring Reservoir. Power Enterprise has had meetings with the neighbors and the Arts Commission, which decided to go along with the neighbor's suggestion for a Spanish-style building. A Request for Proposal (RFP) will be issued this year.

One megawatt Calaveras hydroelectric project – This is similar to the small hydro plant at University Mound but much larger.

Wind power on Twin Peak – It is going through environmental review; once the review period is concluded, an RFP will be issued. This is not a large project so noise will be minimal. Mr. Cain said this would be a good opportunity to use a CAC member from that community for this project's outreach effort.

Mr. Doyle also spoke about a citywide lighting project and transmission options and costs from Moccasin to San Francisco.

Presentation on the TransBay Cable Funds – Jonathan Cherry

Background – It is a privately owned TransBay cable line from Pittsburgh to San Francisco, providing 400-megawatts of power transmission capacity. It went into service in late 2010. The line goes through Port property and as a result, has an agreement with the city. This agreement stipulates that the company would provide the SFPUC with $2 million per year for 10 years as mitigation funds that will help low-income and environmentally disadvantaged communities impacted by its operations. The Board of Supervisors sets up guidelines and restrictions in 2007 as to how the money should be spent.

SFPUC will make a presentation to the board in May to outline how it will use the money to implement the city's energy policy. To that end, Power Enterprise is in the process of outlining the division of funds. They are:

* Ten percent of the funds will go to Workforce Development for green job training programs.

* Half of the funds will focus on energy efficiency projects. The SFPUC is working with other city agencies to identify facilities that require energy upgrades. Most of these agencies are general-fund entities like public health, public schools, parks etc. The SFPUC is also seeking to leverage some of the school bond funding passed in 2011 to help public schools become as energy efficient as possible. In collaboration with the community benefit program, the Power Enterprise also conducts energy audits for community facilities like the Southeast community center.

* About 20% of the fund goes to renewable energy for municipal sites.

Mr. Doyle added that on average Power Enterprise completes about 15 energy efficiency projects a year, spending about $5 to $6 million. Some of the money goes to renewables. But in the next two years, funding for capital projects will drop to $600,000 for each category, which will barely cover staff cost. So the funding from the TransBay cable project is critical.

Nonprofits also benefit from this program as some of them reside in city-owned buildings. In addition, GoSolarSF project provides rebates incentive for non-profits.

7. Adjournment. The meeting was adjourned at 6:40 pm. The next meeting will be Tuesday, March 6, 2012.

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Last Week

Chien, Jim Fri 2/25
Cancelled - CAC Po...

Cancelled - CAC Power Subcommittee Meeting - 3/1/11

Chien, Jim [JChien@sfwater.org]

Sent: Friday, February 25, 2011 4:58 PM
To: SF Docs

A quorum has NOT been established for the Tuesday, 3/1/11 CAC Power Subcommittee meeting.

As a result there will be NO CAC Power Subcommittee meeting on Tuesday, 3/1/11.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee

AGENDA

June 7, 2011

5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor Conference Room

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Members

Doug Cain – Chair
Walt Farrell
Winchell Hayward
Stephen Bjorgan
Jessie Buendia

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17/11

Staff: Ben Chan

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Commission at 25 Van Ness Avenue, Suite 220 San Francisco, CA 94102, Phone: (415) 252-3100/Fax: (415) 252-3112, Email: ethics.commission@sfgov.org.

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Ed Harrington
General Manager

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ORDER OF BUSINESS

1. Call to order
2. Roll call
3. Report from the Chair
4. Staff report
5. Public comment—matters within Subcommittee's scope, not on today's agenda
6. Approval of minutes of May 3, 2011
7. Generating revenue for the Power Enterprise – current and future possibilities
8. Announcements/Comments
9. Adjournment

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The Power Subcommittee of the Citizens Advisory Committee scheduled for Tuesday, June 7, 2011 at 1155 Market Street 4th Floor Conference Room from 5:30 pm to 7 pm has been cancelled due to lack of quorum. If you have any question please call Ben Chan, Public Relations Officer at (415) 554-3284 or email at bychan@sfwater.org.

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cancelled

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Today

Charles Sh... 2:03 PM
Cancelled - CAC Po...

Cancelled - CAC Power Subcommittee Meeting - 7/5/11

Charles Sheehan [csheehan@sfwater.org]

Sent: Friday, July 01, 2011 2:03 PM
To: SF Docs

A quorum has NOT been established for the Tuesday, 7/5/11 CAC Power Subcommittee meeting.

As a result there will be NO CAC Power Subcommittee meeting on Tuesday, 7/5/11.
Thanks,

Charles Sheehan

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Citizens' Advisory Committee
Power Subcommittee

October 4, 2011

Cancelled - Power CAC Subcommittee on Tuesday, October 4, 2011

The Tuesday, October 4, Power CAC Subcommittee meeting scheduled from 5:30 pm to 7 pm at 1155 Market Street 4th Floor Conference Room has been cancelled. The Subcommittee no longer has a quorum for this meeting.

The next regularly scheduled meeting for the Power CAC Subcommittee is on November 1st. For further questions, please contact Ben Chan of Communications at 415-554-3284.

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Citizens' Advisory Committee
Power Subcommittee

Draft Minutes
December 6, 2011

1155 Market Street, San Francisco
4th Floor, Conference Room
5:30 - 7:00 p.m.

Members

Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

Staff Ben Chan

Members present: Cain, Buendia, and Bjorgan

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12/6/11

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ORDER OF BUSINESS

1. **Call to order**
   Chair Doug Cain called the meeting to order at 5:35 PM.

2. **Approval of Minutes of November 8, 2011.**
   The committee approved.

3. **Public comments – matters within Subcommittee's scope, not on today's agenda**
   None.

4. **Report from the chair.**
   Mr. Cain asked that the next meeting include a discussion on broadband power lines (BPL). Essentially, a high tech company would attach equipment that allows it to run data signal over power lines. Google has such an arrangement with Kansas City Power and Light in Missouri over its transmission line.

   About 6 years ago, he said Google offered, through PG&E, to install BPL in San Francisco but was met with resistance from the political establishment at the time. But this technology would bring potential revenue for the SFPUC, he said. The City should explore the possibility of installing BPL in Hunters Point or Treasure Island in the future. At

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General Manager

the next meeting he would bring in someone to make a presentation on the subject.

5. **Staff report**
   The committee unanimously approved a resolution to ask the full CAC to support a power rate increase and urge the Commission to approve the rate increase that would be at a minimum, equal to the cost of service. In supporting the resolution, Mr. Cain said his message to the full CAC would be that the constituents should also voice their support for community choice aggregation, energy efficiency and renewable energy.

7. **Adjournment.**
   The meeting was adjourned at 5:54 pm. The next meeting will be Tuesday, January 3rd, 2012.

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The Power Subcommittee of the Citizens Advisory Committee scheduled for Tuesday, January 3rd, 2012 at 1155 Market Street 4th Floor Conference Room from 5:30 pm to 7 pm has been cancelled due to lack of quorum.

If you have any question please call Ben Chan, Public Relations Officer, at (415) 554-3284 or email at bychan@sfwater.org.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AGENDA

February 7, 2012

5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor Conference Room

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Members
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

Staff: Ben Chan

Disability Access
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ORDER OF BUSINESS

1. Call to order
2. Roll call
3. Approval of minutes of December 6, 2011
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Report from the Chair
6. Staff report
7. Discussion of proposed use of the SF Electric Reliability Payment (Trans Bay Cable funds).
8. Announcements/Comments
9. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

Approved Minutes

February 7, 2012

1155 Market Street, San Francisco
4th Floor Conference Room
5:30 - 7:00 pm

Members

Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

Staff Liaison: Ben Chan

Members present: Cain, Buendia, and Farrell

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ORDER OF BUSINESS

1. **Call to order**
   Chair Doug Cain called the meeting to order at 5:35 PM.

2. **Approval of Minutes of December 6, 2011**
   The committee approved the minutes.

3. **Public Comments – matters within Subcommittee's scope, not on today's agenda**
   None.

4. **Report from the chair**
   Mr. Cain spoke about his request that a presentation be made to the Committee on the applicability of Google's technology that could offer San Francisco a power distribution system that also carries broadband internet signal.

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Vince Courtney
Commissioner

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General Manager

5. **Staff report**

John Doyle of Power Enterprise briefed the committee on some of the on-going projects; specifically, Pier 27, hydroelectric power for University Mound, hydroelectric power for Calaveras reservoirs, wind power in Twin Peaks and other energy efficiency projects.

Pier 27 – It is a cruise ship terminal for the upcoming America's Cup event. SFPUC is working with the event organizer through the Mayor's Office. No agreement has yet been made as to what kind of energy SFPUC could provide or what potential fees might be. A solar array on top of the pier will be installed as a long-term project.

The 240 kilowatt hydroelectric plant to be built at the University Mound Reservoir will take advantage of gravity-driven water coming from the Crystal Spring Reservoir. Power Enterprise has had meetings with the neighbors and the Arts Commission, which decided to go along with the neighbor's suggestion for a Spanish-style building. A Request for Proposal (RFP) will be issued this year.

One megawatt Calaveras hydroelectric project – This is similar to the small hydro plant at University Mound but much larger.

Wind power on Twin Peak – It is going through environmental review; once the review period is concluded, an RFP will be issued. This is not a large project so noise will be minimal. Mr. Cain said this would be a good opportunity to use a CAC member from that community for this project's outreach effort.

Mr. Doyle also spoke about a citywide lighting project and transmission options and costs from Moccasin to San Francisco.

Presentation on the TransBay Cable Funds – Jonathan Cherry

Background – It is a privately owned TransBay cable line from Pittsburgh to San Francisco, providing 400-megawatts of power transmission capacity. It went into service in late 2010. The line goes through Port property and as a result, has an agreement with the city.

This agreement stipulates that the company would provide the SFPUC with $2 million per year for 10 years as mitigation funds that will help low-income and environmentally disadvantaged communities impacted by its operations. The Board of Supervisors sets up guidelines and restrictions in 2007 as to how the money should be spent.

SFPUC will make a presentation to the board in May to outline how it will use the money to implement the city's energy policy. To that end, Power Enterprise is in the process of outlining the division of funds. They are:

* Ten percent of the funds will go to Workforce Development for green job training programs.

* Half of the funds will focus on energy efficiency projects. The SFPUC is working with other city agencies to identify facilities that require energy upgrades. Most of these agencies are general-fund entities like public health, public schools, parks etc. The SFPUC is also seeking to leverage some of the school bond funding passed in 2011 to help public schools become as energy efficient as possible. In collaboration with the community benefit program, the Power Enterprise also conducts energy audits for community facilities like the Southeast community center.

* About 20% of the fund goes to renewable energy for municipal sites.

Mr. Doyle added that on average Power Enterprise completes about 15 energy efficiency projects a year, spending about $5 to $6 million. Some of the money goes to renewables. But in the next two years, funding for capital projects will drop to $600,000 for each category, which will barely cover staff cost. So the funding from the TransBay cable project is critical.

Nonprofits also benefit from this program as some of them reside in city-owned buildings. In addition, GoSolarSF project provides rebates incentive for non-profits.

6. Adjournment. The meeting was adjourned at 6:40 pm. The next meeting will be Tuesday, March 6, 2012.

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Citizens' Advisory Committee (CAC)
Power Subcommittee
MEETING AGENDA

Tuesday, March 6, 2012
5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor

Members:
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

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Staff Liaison: Ben Chan

ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of minutes of February 7, 2012
3. Public comment—matters within Subcommittee's scope, not on today's agenda
4. Report from the Chair
5. Staff report
6. Land Use Framework – Presenter Michael Carlin
7. Announcements/Comments
8. Adjournment

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Ed Harrington
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Citizens' Advisory Committee (CAC)
Power Subcommittee

DRAFT MINUTES

Tuesday, March 6, 2012

5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor

Members:
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

Staff Liaison: Ben Chan

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ORDER OF BUSINESS

1. **Call to order and roll call**

2. **Approval of minutes of February 7, 2012**

3. **Public comment—matters within Subcommittee's scope, not on today's agenda**

4. **Report from the Chair**

   The Google presentation regarding the use of the City's power lines to transmit broadband signal would be postponed until further notice.

5. **Staff presentation**
   Proposed Land Use Framework
   Presenter Michael Carlin, Deputy General Manager - SFPUC

   SFPUC has a new, proposed policy on land use that will be subject to commission approval shortly. Mr. Carlin specified that it's more of a guidance document, rather than a strict use policy.

   He explained that the SFPUC owns a lot of property inside and outside San Francisco. The SFPUC has 60,000 acres in San Mateo and Alameda counties. He noted that there are policies in place for some of our properties and watershed lands. We also have dual uses for some of our land and we acquire land as time goes on. Sunset Reservoir is an example of a dual use facility; the Water Enterprise manages the water supply side while the solar panels installed on top of the reservoir are managed by the Power Enterprise.

   He noted again that the SFPUC is actively acquiring land, especially the watersheds in the Peninsula and in Alameda County. He explained that there are pockets of privately owned parcels within our watersheds. We're in the process of acquiring those parcels over time for watershed protection.

   The Land Use Framework document is not intended to change or revise policy already in place, but rather, it will introduce a guiding policy to evaluate SFPUC land and

honored, if possible.

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Citizens' Advisory Committee (CAC)
Power Subcommittee

DRAFT MINUTES

Tuesday, March 6, 2012

5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor

Members:
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

Staff Liaison: Ben Chan

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ORDER OF BUSINESS

1. **Call to order and roll call**

2. **Approval of minutes of February 7, 2012**

3. **Public comment—matters within Subcommittee's scope, not on today's agenda**

4. **Report from the Chair**

   The Google presentation regarding the use of the City's power lines to transmit broadband signal would be postponed until further notice.

5. **Staff presentation**
   Proposed Land Use Framework
   Presenter Michael Carlin, Deputy General Manager - SFPUC

   SFPUC has a new, proposed policy on land use that will be subject to commission approval shortly. Mr. Carlin specified that it's more of a guidance document, rather than a strict use policy.

   He explained that the SFPUC owns a lot of property inside and outside San Francisco. The SFPUC has 60,000 acres in San Mateo and Alameda counties. He noted that there are policies in place for some of our properties and watershed lands. We also have dual uses for some of our land and we acquire land as time goes on. Sunset Reservoir is an example of a dual use facility; the Water Enterprise manages the water supply side while the solar panels installed on top of the reservoir are managed by the Power Enterprise.

   He noted again that the SFPUC is actively acquiring land, especially the watersheds in the Peninsula and in Alameda County. He explained that there are pockets of privately owned parcels within our watersheds. We're in the process of acquiring those parcels over time for watershed protection.

   The Land Use Framework document is not intended to change or revise policy already in place, but rather, it will introduce a guiding policy to evaluate SFPUC land and

property. The policy will ensure that the SFPUC looks at its land from an economic, environmental and community standpoint. The framework is an analytical tool for the Commission to look at in real estate transactions.

The Commission will consider the Land Use Framework on March 13.

Mr. Farrell asked if the SFPUC had any criteria for selling properties.

Mr. Carlin specified that when the SFPUC declares a property as surplus, there's SF charter language that said it has to be declared as having no utility purpose.F or example, the property at 425 Mason St, which was purchased from Spring Valley Water Company, was no longer needed; this is why it was sold.

Mr. Cain asked if the Real Estate Services was outsourced. Mr. Carlin responded and said no, the unit was undergoing reorganization.

On Francisco Reservoir, Mr. Carlin said SFPUC representatives have met with neighborhood groups with the Mayor's Office. In the meetings, the SFPUC informed the neighborhood that the agency would move forward with taking the roof off of the structure to make it safe and more secure. He noted that there are internal discussions as to whether there's still utility purpose for this reservoir. Mr. Cain emphasized that the SFPUC has a lot of assets and is responsible for determining how to make use of those assets for the benefit of all ratepayers.

Mr. Cain noted that the Francisco Reservoir issue might still present an opportunity for CAC to serve as a conduit for mediation between the agency and the neighborhood associations. He hopes that in the future, the CAC could provide this kind of relationship as Mr. Cain thought Ed Harrington had endorsed when he met with the full CAC.

6. Announcement/Public comment

Ms. Jennifer Clary said she was glad that the Real Estate division was being revamped.

Ms. Jennifer Clary was concerned that natural areas in San Francisco are not being treated the same way as watershed land outside the city. She insisted that the stewardship policies adopted for the SFPUC watershed land outside the city should also apply to properties in San Francisco because there are natural areas here with significant habitat concerns under SFPUC's jurisdiction, such as Laguna Honda Reservoir and Lake Merced.

Mr. Carlin said the sale of the parcel at 17th and Mission was a great example that featured economic benefits for all ratepayers and met the needs and requests of the community. The transaction followed a long period of public outreach. The parcel was declared surplus property that no longer serves a utility purpose. The SFPUC then sold this property to the Mayor's Office of Housing and the Recreation and Park Department for $6.2 million, which was market value.

Mr. Cain noted that the CAC has a dual role: to represent the voice of the community and represent the SFPUC to the community. Regarding the Francisco Reservoir, Mr. Cain noted that people should understand that the neighbors should not consider themselves the sole beneficiary of that property. He explained that all the ratepayers need to be considered in the negotiations as well. There can be a compromise among the City, the ratepayers, and the neighborhood. Mr. Cain noted that the development site could possibly be located on the Reservoir's high uphill slope which is not really accessible because of its steepness. This would not impair views and keep the accessible flat area of the old Reservoir for park use.

Ms. Clary urged Mr. Carlin to insert into the Land Use Framework a section that directs the SFPUC to account for local San Francisco policies and plans when the SFPUC evaluates surplus land or other property. She also insisted that the land

Environmental Stewardship Policy that the SFPUC has outside of the City,s hould also be utilized for land and property inside of the City.

Mr. Carlin responded that the SFPUC is subject to the City Charter, which mandates a different course in certain areas than other City agencies. He also noted that certain city's policies are applicable as well as environmental justice guidelines and community benefit policies that are considered when evaluating real estate transactions.

Mr. Cain said that the SFPUC does seem to conduct a lot of outreach to the communities.He ho ped that the CAC could help provide further neighborhood input to the SFPUC.

Mr. Cain and Ms. Clary disagreed about the extent of influence the Board of Supervisors has over the SFPUC in the City budget process. Mr. Cain said the neighborhoods ultimately can appeal to the Board which review and approval of many SFPUC policies.

Ms. Jan Blum, board member of the Russian Hill Improvement Association,d isplayed a copy of her group's resolution to the committee, and requested its approval and that it then be presented to the full Commission.

Ms. Clary suggested a resolution on land management framework should include consideration of local policies.

Mr. Cain, Mr. Jones and Ms. Clary noted that since Ms. Blum's resolution is not a published agenda item,it cannot be considered at this meeting according to the Brown Act.M s. Blum can submit her resolution to the full CAC for their consideration as an agenda item.

The Committee noted that the discussion of the March 6th minutes would be posted online and technically the minutes would be approved at the next CAC meeting, subject to amendment by the Committee.

Mr. Cain asked that the minutes reflect that there was a discussion regarding the SFPUC's proposed Land Use Framework and that there was no recommendation made. The committee members agreed that a resolution from an outside group could be presented to the full CAC for their consideration.

7. **Adjournment at 6:50 pm**.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AGENDA

April 3, 2012

5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor Conference Room

2.2582
3/12

Members
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

04-02-12A08:25 RCVD

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Staff: Ben Chan

ORDER OF BUSINESS

1. Call to order
2. Roll call
3. Approval of minutes of March 6, 2012
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Report from the Chair
6. Staff report
7. CleanPowerSF Update
8. Announcements/Comments
9. Adjournment

Disability Access
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Citizens' Advisory Committee
Power Subcommittee

Draft Minutes

April 3, 2012

1155 Market Street, San Francisco
4th Floor Conference Room
5:30 - 7:00 pm

Members

Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia

Staff Liaison: Ben Chan

Members present: Cain, Buendia, Farrell and Bjorgan

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ORDER OF BUSINESS

1. **Call to order**
   Chair Doug Cain called the meeting to order at 5:35 PM.

2. **Approval of Minutes of February 7, 2011**
   The committee approved the minutes.

3. **Public Comments – matters within Subcommittee's scope, not on today's agenda**
   None.

4. **Report from the chair**
   Mr. Cain spoke about his request that a presentation be made to the Committee on the applicability of Google's technology that could offer San Francisco a power distribution system that also carries broadband internet signal.

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5. **Staff report**

John Doyle of Power Enterprise briefed the committee on some of the on-going projects; specifically, Pier 27, hydroelectric power for University Mound, hydroelectric power for Calaveras reservoirs, wind power in Twin Peaks and other energy efficiency projects.

Pier 27 – It is a cruise ship terminal for the upcoming America's Cup event. SFPUC is working with the event organizer through the Mayor's Office. No agreement has yet been made as to what kind of energy SFPUC could provide or what potential fees might be. A solar array on top of the pier will be installed as a long-term project.

The 240 kilowatt hydroelectric plant to be built at the University Mound Reservoir will take advantage of gravity-driven water coming from the Crystal Spring Reservoir. Power Enterprise has had meetings with the neighbors and the Arts Commission, which decided to go along with the neighbor's suggestion for a Spanish-style building. A Request for Proposal (RFP) will be issued this year.

One megawatt Calaveras hydroelectric project – This is similar to the small hydro plant at University Mound but much larger.

Wind power on Twin Peak – It is going through environmental review; once the review period is concluded, an RFP will be issued. This is not a large project so noise will be minimal. Mr. Cain said this would be a good opportunity to use a CAC member from that community for this project's outreach effort.

Mr. Doyle also spoke about a citywide lighting project and transmission options and costs from Moccasin to San Francisco.

Presentation on the TransBay Cable Funds – Jonathan Cherry

Background – It is a privately owned TransBay cable line from Pittsburgh to San Francisco, providing 400-megawatts of power transmission capacity. It went into service in late 2010. The line goes through Port property and as a result, has an agreement with the city.

This agreement stipulates that the company would provide the SFPUC with $2 million per year for 10 years as mitigation funds that will help low-income and environmentally disadvantaged communities impacted by its operations. The Board of Supervisors sets up guidelines and restrictions in 2007 as to how the money should be spent.

SFPUC will make a presentation to the board in May to outline how it will use the money to implement the city's energy policy. To that end, Power Enterprise is in the process of outlining the division of funds. They are:

* Ten percent of the funds will go to Workforce Development for green job training programs.

* Half of the funds will focus on energy efficiency projects. The SFPUC is working with other city agencies to identify facilities that require energy upgrades. Most of these agencies are general-fund entities like public health, public schools, parks etc. The SFPUC is also seeking to leverage some of the school bond funding passed in 2011 to help public schools become as energy efficient as possible. In collaboration with the community benefit program, the Power Enterprise also conducts energy audits for community facilities like the Southeast community center.

* About 20% of the fund goes to renewable energy for municipal sites.

Mr. Doyle added that on average, Power Enterprise completes about 15 energy efficiency projects a year, spending about $5 to $6 million. Some of the money goes to renewables. But in the next two years, funding for capital projects will drop to $600,000 for each category, which will barely cover staff cost. That's why the funding from the TransBay cable project is critical.

Nonprofits also benefit from this program as some of them reside in city-owned buildings.

6. Adjournment. The meeting was adjourned at 6:40 pm.

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The Power Subcommittee of the Citizens Advisory Committee scheduled for Tuesday, May 1, 2012 at 1155 Market Street 4th Floor Conference Room from 5:30 pm to 7 pm has been cancelled due to lack of quorum.

If you have any question please call Ben Chan, Public Relations Officer, at (415) 554-3284 or email at bychan@sfwater.org.

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Today

Ben Chan 3:43 ...
CAC Power Subcom...

CAC Power Subcommittee meeting for May 2012 cancelled

Ben Chan [bchan@sfwater.org]

Sent: Friday, April 27, 2012 3:43 PM
To: SF Docs

The Power Subcommittee of the Citizens Advisory Committee scheduled for Tuesday, May 2, 2012 at 1155 Market Street 4th Floor Conference Room from 5:30 pm to 7 pm has been cancelled due to lack of quorum. If you have any question please call Ben Chan, Public Relations Officer, at (415) 554-3284 or email at bychan@sfwater.org

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The Power Subcommittee of the Citizens Advisory Committee scheduled for Tuesday, June 5, 2012 at 1155 Market Street 4th Floor Conference Room from 5:30 pm to 7 pm has been cancelled due to lack of quorum.

If you have any question please call Ben Chan, Public Relations Officer, at (415) 554-3284 or email at bychan@sfwater.org.

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The Power Subcommittee of the Citizens Advisory Committee scheduled for Tuesday, July 3rd, 2012 at 1155 Market Street 4th Floor Conference Room from 5:30 pm to 7 pm has been cancelled and rescheduled for Tuesday, July 10th, 2012. If you have any question please call Ben Chan, Public Relations Officer, at (415) 554-3284 or email at bychan@sfwtaer.org.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AGENDA

July 10, 2012

5:30 p.m. – 7:00 p.m.
1155 Market Street, 4th Floor Conference Room

Members
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia
Ted Ko
Avni Jamdar

Staff: Charles Sheehan

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ORDER OF BUSINESS

1. Call to order
2. Roll call
3. Approval of minutes of April 3, 2012
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Report from the Chair
6. Staff report
7. The Status of San Francisco's Street Lights
8. Possible Resolution in Support of CleanPowerSF
9. Announcements/Comments
10. Adjournment

Disability Access
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Citizens' Advisory Committee
Power Subcommittee

Draft Minutes

July 10, 2012

1155 Market Street, San Francisco
4th Floor Conference Room
5:30 - 7:00 pm

Members

Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia
Ted Ko
Avni Jamdar

Staff Liaison: Ben Chan

Members present: Cain, Farrell, Ko, and Jamdar

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ORDER OF BUSINESS

1. **Call to order**
   Chair Doug Cain called the meeting to order at 5:38 PM.

2. **Approval of Minutes of April 3, 2012**
   The committee approved the minutes.

3. **Public Comments – matters within Subcommittee's scope, not on today's agenda**
   None.

4. **Report from the chair**
   Mr. Cain welcomed new members Ms. Jamdar and Mr. Ko to the committee. The full CAC might have a resolution to support Community Choice Aggregation but it will have to wait because member Buendia is on vacation until mid-August.

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5. **Staff report**
Presentation by Mary Tienken, Project Manager, Utility Services Group – update on street lights; previously presented to both the SFPUC Commission and the Board of Supervisors.

Recently the Commission and the Board heard a report about the levels of street light service that the SFPUC and PG&E provide. The report also detailed the feasibility of selling the city's street lights to PG&E and vice versa. No action was taken on any item.

Throughout the city, SFPUC owns approximately 25,000 street lights while the rest of the 19,000 belong to PG&E. Both have standard cobra-head lights. Ownership patterns are mixed, which sometimes can be confusing for citizens who report street light problems. Whether consolidation of ownership of street lights would result in cost-efficiency has been a long-standing issue for over half a century.

SFPUC provides power to all street lights, regardless of ownership. Its operational budget pays for the maintenance and staffing. SFPUC has to pay PG&E a rate per light for its operation and maintenance costs. The rate is established and approved by the state's public utilities commission (CPUC) every three to four years.

PG&E has been asked repeatedly when they plan on converting their high pressure sodium (HPS) light into LED lights.

The SFPUC pays in total $3.7 million per year for operations and maintenance for both the City's and PG&E's street lights. About $2.1 million goes to city staffing and $1.6 million goes to PG&E. SFPUC doesn't own the distribution lines so it pays another $340,000 to PG&E each year.

All street light calls are now centralized through 311. SFPUC has a service goal of fixing simple outage within 48 hours. The bulk of the problems reported with 311 are maintenance.

In its report to the Commission, Power Enterprise does not recommend buying out PG&E's lighting assets. Many of their lights have not been upgraded for a long time. One estimate says it will require $35 million to $42 million just to convert the oldest PG&E lights. SFPUC's system is

also aging; that's why the SFPUC will begin replacing 18,500 HPS lights with new, LED lights.

Some of the recommendations to the Board of Supervisors:

* Create a lighting assessment district that would allow neighborhoods tax themselves to fund improvement. Ms. Jamdar said this idea would put poor communities at a disadvantage.
* Establish uniform levels of services such as the 48-hour goal.

The Board of Supervisor has no leverage over PG&E's street lights, although it can pass a resolution urging the CPUC to take action.

The board's hearing was announced in January this year but the hearing was not held until June. Record shows that during those intervening months PG&E's street light response time improved.

6. Adjournment. The meeting was adjourned at 6:26 pm. The next meeting will be August 7, 2012.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AGENDA

August 7, 2012

5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor - O'Shaughnessy Meeting Room, Section A

Members
Doug Cain – Chair
Walt Farrell
Stephen Bjorgan
Jessie Buendia
Ted Ko
Avni Jamdar

Staff: Charles Sheehan

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ORDER OF BUSINESS

1. Call to order
2. Roll call
3. Approval of minutes of July 10, 2012
4. Public comment—matters within Subcommittee's scope, not on today's agenda
5. Report from the Chair
6. Staff report
7. Implementation of ERP – Green Test Bed Report
8. Possible Resolution in Support of CleanPowerSF
9. Announcements/Comments
10. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MINUTES - APPROVED

Tuesday, August 7, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor - O'Shaughnessy Meeting Room, Section A

Members

Doug Cain – Chair	Jessie Buendia	Ted Ko
Stephen Bjorgan	Walt Farrell	Avni Jamdar

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Staff: Charles Sheehan & Teresa Young

ORDER OF BUSINESS

1. Call to order by Chair Doug Cain at 05:35 p.m.

2. Roll call: Present: D.Cain; W.Farrell; J.Buendia; T.Ko; A.Jamdar; S.Bjorgan

3. Approval of minutes of July 10, 2012
   Postpone voting to adopt July minutes until next meeting. C.Sheehan will revise minutes to include discussion questions from July.

4. Public comment:
   Eric Brooks: SF Green Party and local grassroots organization "Our City", member of the ad hoc coalition/alliance to get CCA up, member of the public.

5. Report from the Chair: D.Cain suggested each member choose a particular segment/topic of interest and learn more about it, so that members are more informed and up to speed for future presentations. After choosing area of interest, look at the Commission agenda for when those topics come up.
   A.Jamdar: Interested in energy efficiency.
   ** Skipped to items 7 and 8.

6. Staff report: C.Sheehan introduced Teresa Young as new CAC staff liaison.
   ** Skipped back to items 9 and 10.

7. Presentation of Implementation of ERP – Green Test Bed Report: Jonathan Cherry and Shaibya Dalal, SFPUC Power Enterprise
   W..Farrell: What would be a sample program that you'd recommend as a example?
   S.Dalal: We didn't find a single program with a uniform program structure that fits our needs. New York has a municipal entrepreneurial testing system that is closest to what SFPUC could implement.
   J.Cherry: Depending on the technology, the interest of the vendor and interest of the department, we could create a matching program for limited duration pilots. As technologies emerge, we could be giving technology developers real world testing sites for their projects on municipally-owned buildings. For the City, are there technologies that we could adopt as part of our programs? Secondly, if the vendors don't use CCSF and the technologies do work, to help publicize in the private sector showing that it works in SF.

T.Ko: There are some cleantech incubators in San Jose and I also know someone who starts cleantech incubator looking to launch something in SF. In your research, did you run into any or talk to incubators?
S.Dalal: We didn't run into incubators, but we were also specifically progressively looking at the public sector. At least in the initial stages, we wouldn't partner with incubators.
J.Cherry: There are different stages in technology development. What we're focused on is a little later than the start up phase, but before it is tested/launched on the public market. We have been in contact with the Mayor's Office of Workforce Development.
T.Ko will follow up as an area of interest – cleantech incubators.
A.Jamdar: What type of innovations are you looking to harness?
S.Dalal: Most of them were related to renewables and energy. Some expanded to water and wastewater. Overall, it was the same type of technologies – solar arrays, vertical axis turbines, etc.
J.Buendia: In terms of the criteria, if that would also include environmental impact of technology? Being able to look at it beyond economic quality, but also job creation.
J.Cherry: If you have ideas about assessing those benefits, it would be helpful to share with us. For example, energy beyond energy savings, but jobs, quantifying health benefits, etc.
S.Bjorgan: It'll be very interesting when we get into phase two (water and wastewater) because there's more technology there than energy generation. In any of the study cases, do they have any benchmark/metrics of success that we can see?
S.Dalal: There is a column with outcomes listed in the matrix. We tried to find out if any of the piloted technologies ended being purchased as result of the program.
S.Bjorgan: Sonoma published a guide to help other cities replicate what they've done instead of starting from scratch. In terms of funding sources, is there anything thought about in terms of City funds or matching with venture capital firms, state grants, etc.?
S.Dalal: Our report includes a few federal grants that we can apply for. What we're envisioning is to provide the site and program management, not so much the funding for the technology.
D.Cain: What is the GHG-free strategy to implement across the City and which goals would be executed over a time period?
J.Cherry: We can definitely share the ERP, which may answer that question.
W.Farrell: Are you looking at private versus public entities to participate in these projects?
S.Dalal: The technology companies will all be private companies.
J.Cherry: Targeted test sites would be our customer sites. For example, start with SFPUC sites.
W.Farrell: In terms of metrics, are these supposed to be beneficial in terms of economical?
J.Cherry: We want performance data out of this. Part of the agreement with the company would be that this wouldn't be a completely private project.
C.Sheehan will send a link to the ERP where the idea of the green test bed was flushed out.

Public Comment:
E.Brooks: Community benefits and workforce benefits – talk to Juliet Ellis to start tapping into those opportunities and ask what opportunities are available through the Southeast Community Center. The urban composting toilets report from Tommy Moala addresses reworking the wastewater system. We need various test pilots of these technologies. Wastewater also ties into energy.
J.Cherry: We're trying to create a framework to pursue these technologies and strategies.
E.Brooks: Last year, we got the Power enterprise to do a study for CleanPowerSF for the build out component, which is hundreds of MW of energy efficiency and renewables. A lot of the questions you're asking will be answered by that study, because it is scoping data and customer relations. The

answers will be in the ERP and the study that will be done at the end of the year. Local Power is doing the study. How are you going to differentiate that is not really off the shelf or almost off the shelf that will automatically be done under CleanPowerSF? Things that really need a test bed versus things ready to go for CCA?
J.Cherry: I don't know the answer to your question, but will probably be a combination of working with the Mayor's Office of Economic Development, companies that fit the criteria, etc.
E.Brooks: Please be very circumspect on biofuels and biomass.

8. Possible Resolution in Support of CleanPowerSF: J.Buendia provided background on CleanPowerSF and shared draft resolution with members. J.Buenda moved for subcommittee to discuss and approve and bring to full CAC meeting; T.Ko seconded for discussion.

   W.Farrell suggested removing the word "full" from the last paragraph.
   J.Buendia: We want to get this resolved so that it can be presented to the full CAC before the Board of Supervisors (BOS) review and approve the contract in September.
   T.Ko: How big will the local build out be?
   J.Buendia: There may be a phased approach in rolling the out.
   C.Sheehan: We are still studying what a local build out is. The contract with Shell has a resource substitution clause. The current program before the BOS is to start 20-30MW as a first phase to study how a local build out will compliment that.
   T.Ko: Are there numbers and targets or mechanisms to study metrics?
   C.Sheehan: That's a component that we're studying. There are no RFPs embedded in the legislation package, but the local build out is a goal and we're studying with consultants. The build out is being developed as it is being implemented as well.
   A.Jamdar: Suggestion for the resolution to address more details of local build out, such as adding in the final paragraph "approving… contingent upon the integrated program for energy efficiency, green jobs, etc."
   D.Cain: The staff needs so much money to fund this program, which they don't have and this is a "keep going, don't give up" type of resolution.
   T.Ko: There is no integrated program to approve. We should remove "the" because we can't ask the BOS to approve something that currently does not exist.
   D.Cain: Suggest to revise "the" to "an".
   T.Ko: Suggest adding approving and directing the SFPUC to implement/or establish an integrated program…and establish financing mechanism.

   Public Comment:
   E.Brooks: The Subcommittee could include original implementing language in 2007 that describes the basic parameters of the program into resolution. The Subcommittee could refer to ordinance 147-07 to give guidelines in the last paragraph, which would read "direct the SFPUC to… as ascribed in Ordinance 147-07…"

   D.Cain moved; T.Ko seconded
   In favor: D.Cain; J.Buendia; T.Ko; A.Jamdar; S.Bjorgan
   Not in favor: W.Farrell

   ** Skipped back to item 6,

9. Announcements/Comments – none.

10. Adjournment at 07:00 p.m. S.Bjorgan moved; J.Buendia seconded.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA
Tuesday, September 4, 2012

5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain (D3, Chair)	Jessie Buendia (D6)	Ted Ko (B-Small Business)
Stephen Bjorgan (M-Eng./Financial)	Walt Farrell (D7)	Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **July 10** and **August 7** meeting minutes
3. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda.
4. Report from the Chair: Doug Cain
5. Staff report
6. Presentation and Discussion: **New Air Resource Board initiatives regarding cap and trade allowances and how they affect publicly owned utilities** (Power Enterprise)
7. Future Agenda Items
8. Announcements/Comments
9. Adjournment

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Citizens' Advisory Committee
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Approved Meeting Minutes

Tuesday, September 4, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

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Members

Doug Cain (D3, Chair) Jessie Buendia (D6) Ted Ko (B-Small Business)
Stephen Bjorgan (M-Eng./Financial) Walt Farrell (D7) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order by Chair Doug Cain at 05:36 p.m.
   Present: D.Cain; W.Farrell; J.Buendia; T.Ko; S.Bjorgan
   Absent: A.Jamdar

2. Approval of the **July 10** and **August 7** meeting minutes
   W.Farrell moved; T.Ko seconded. July 10 minutes approved by acclamation.
   J.Buendia moved; T.Ko seconded. August 7 minutes approved by acclamation.

3. Public Comment:
   Tom Hardy: Department of Labor at Treasure Island. He is interested in bringing students into process of providing power to Treasure Island and exploring opportunities to provide direct power to the waste treatment plant and Hunters Point. He works with students from the Job Corp.

4. Report from the Chair: Doug Cain
   Need **Green Test Bed Presentation** from staff, so that the subcommittee can revisit and discuss about this more along with metrics coming down the pipeline.
   PG&E is no longer presenting tonight.
   We are sending the **CleanPowerSF CCA packet** to full CAC. Invited Ted Egen to make a presentation about the **CCA economic impact** for the 9/25 full CAC meeting. T.Young will confirm with T.Jones (Chair of full CAC).

   ** skipped to item 6

5. Staff report: Charles Sheehan and Meg Meal
   - **Power Content Label**: We're getting ready to distribute our new power content label. This is a regulatory requirement by CPUC about the makeup of our power supply.
   - Streetlight Presentation: PG&E no longer presenting today.
     - T.Ko: As citizens, how do we get PG&E to resolve streetlight problems if it's not owned by the SFPUC? If there is a level of service, how do we get PG&E to maintain a level of service?

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- M.Meal: Through the CPUC. I'm not sure if the general rate case (GRC) is the place to do that. I can check on that.
- T.Ko: For PG&E streetlights that are hard to maintain, is there a plan or budget to change or replace the old lights? Is the GRC the right place to bring that up?
- M.Meal: I do think that the GRC is the place to bring up those issues. We will probably need to go through request for more information through PG&E, because the GRC is pretty broad, but they are talking about LED conversations.
- T.Ko: As the CAC, what's the most appropriate venue/platform to bring up these concerns?
- M.Meal: An effective avenue is for them to come in and explain their levels of service. Another avenue is for us to investigate further what the venues are, when customers are feeling LOS commitments are not being met. I think the GRC is a good avenue, because it allows us to submit our discoveries and a formal way of asking questions. Some combination of formal and informal avenues may be effective.

** continued to item 7

6. Presentation and Discussion: **New Air Resource Board initiatives regarding cap and trade allowances and how they affect publicly owned utilities** (Meg Meal, Regulatory Specialist, Power Enterprise, SFPUC; Whitney Ramos, City Hall Fellow, Power Enterprise, SFPUC)

Discussion and Q&A:
W.Farrell: If I'm a utility, this means I can produce so many tons of CO2. If I make an improvement on my plant, can I sell the allowances?
M.Meal: Yes, you can sell the allowances and use that money to make improvements or buy renewables. The idea is that it puts a price on carbon and gives decision makers the ability to pay for higher fossil source or invest in renewable energy that would produce less greenhouse gases. We're learning that this is a new program, everything seems to be going according to schedule, and new systems are put in place to facilitate trading of allowances and we're setting up accounts. For us, it will be relatively straight forward because we're a seller of allowances and we're price takers. The way the auction works is that all of the allowances sold get put into a "big pot" and potential buyers put in bids for the volume they want to purchase and what they're willing to pay. This all happens on one day in one window. Bids are ranked from highest to lowest. The lowest price that clears with sufficient volume will be the price that all the bidders will buy at depending on their bids.
D.Cain: How are the allowances prioritized in terms of the dedication to the bidders?
M.Meal: I'm pretty sure a pro rata allocation. For example, they'll go through the lots until they get to 100 units available. They'll take the highest bids for that 100 and the lowest price in that lot is the clearing price, but all of the bidders above that will get the volume they requested.
J.Buendia: How much are people predicting that it's going to go for?
M.Meal: I've heard a lot of different things. The ARB has established a floor price of $10 per allowance or $10 a metric ton, which is the lowest price. There has to be sufficient volume at that price for us to sell all of our allowances. I've heard things about secondary market activity going on with prices in the $15-$25 a ton range, but it's a very small volume. One of the main purposes of this auction approach as well as having the state auction off allowances of their own rather than giving them to emitters and also providing allowances to distribution utilities as opposed to the GHG emitters is to create a market.
W.Farrell: Is it the situation that if I build a facility that's going to produce so much of CO2, then I have to buy somebody else's allowances?
M.Meal: Yes, there's a gap between the 162 and 95. The gap is made up of a large chunk of allowances that are going to be sold by the state. If you were a new GHG emitter, you would have to buy allowances from somebody else or

group of allowances that's going auctioned. Some existing GHG emitters, I believe it's primarily refineries or heavy-duty industrial processes, are being given allowances by the state. You would have to have an existing facility to get free allowances.
W.Farrell: Is this program new or has it been tried before?
M.Meal: You could choose to go out of business and sell your allowances if you are given these allowances. You would be closing down your plant and reducing your GHG emissions. It is a new program for California. Europe has carbon trading and there has been for some time trading in the U.S. of other kinds of pollutants, like oxides of nitrogen and sulfur. There are similar market mechanisms that have worked very well, but this is a new thing for California.
J.Buendia: You had mentioned the different programs that fall under the purview of how the funding can be spent. When staff figures out how to allocate it to the different programs, do you have to submit that to the Commissioners or to the ARB? Who approves this?
M.Meal: The ARB is still working on their regulations for restrictions, and guidelines and requirements for spending. It is clear that we will have to do regular reporting to the ARB. The amount of detail and parameters in spending is pending additional draft regulations. The regulations are being developed in real time as these deadlines are coming along. We will be reporting regularly to our Commission and other advisory committees.
T.Ko: The free allocation allowances, is that typically what percentage of the total emissions for the utility?
M.Meal: It varies a lot. The ARB regulation includes the ARB's decision about how many allowances are given to the difference utilities. It's roughly in proportion to existing emissions with the concept that that's a measure of the cost incurred as a result of the program. Emissions are also granted to recognize early action in improving the emissions content of your portfolio. It's a combination of both existing emissions, ARB's estimates of what it will cost for these entities to operate under the programs, and credit for early action.
S.Bjorgan: Would the introduction of CCA impact this?
M.Meal: The CCA situation on cap and trade is different, because CCA customers are distribution customers of PG&E. PG&E is getting allowances on behalf of existing and future customers of CCA. The CCA benefits from the allowances will flow through PG&E. Our allocation is very separate.
D.Cain: Are the allowances based on quantifications on actual analysis? How much is likely influenced?
M.Meal: We did work with the ARB as they were developing these allowances. We provided them information about our historical loads and generation. They did have stakeholder processes showing what they were proposing as allocations.
D.Cain: Does that indicate a certain lack of transparency in part of the analysis or distribution of the analysis?
M.Meal: There was a certain amount of modeling that they were doing that we didn't have the staff time to get into the nuts and bolts of it. We were looking at it from a standpoint of is this reasonable given where we were compared to other utilities and what our costs are likely to be to comply.
D.Cain: Is California emissions analyses completely verified or is a complete model?
M.Meal: We've been doing reporting to the ARB for a few years now, so that ARB can develop a robust GHG inventory. It's being modified over time as people learn about the accounting. GHG accounting, especially when you're comparing different fuel sources and different uses of the fuel, is not that straight forward. There are a lot of different parameters, but I believe that California is doing a much better job in consistent GHG inventories.
D.Cain: I'm curious to know if there's verification of emissions.
M.Meal: There are requirements of third party verification of GHG reporting. We have our GHG reports third party verified. Certain emitters are required to have the third party verification, generally those that are emitting more than we are. Our power enterprise operations don't burn fossil fuels, so we don't emit GHGs. The wastewater enterprise burns biogas, but it captures methane rather than releasing it. It's burning the methane to produce heat to run processes of

digestion, and running that fuel to produce electricity. Our role in these inventories is much lower profile than some of the other manufacturers have to go through.
D.Cain: The secondary market seems to be a huge spread $15-$25 and it looks like an opportunity for market makers to come in and take advantage of. Are there safeguards somewhere in that process?
M.Meal: I don't know the answers so much in the secondary market. I know the ARB is being very careful about the state run auctions, who can participate, how you identify yourself, and there is a lot of fraud protection in place. The secondary market is regulated by others. It's a commodities market.
D.Cain: Do you think your allowance was fair?
M.Meal: I do.
J.Buendia: Who represents the SFPUC in the ARB? Is it managed by External Relations, etc.?
M.Meal: It's a combination of things. That's one of the tasks of my group – it is to do advocacy work with the ARB, California Energy Commission, and CPUC when it relates to us. Power Enterprise Regulatory Affairs and Legislative Affairs work jointly together on legislative matters. We look out for new regulations, understand them, and look for improvements to make.
W.Farrell: Are these allowances theoretical? Is it specific to technology or generator?
T.Ko: Out of the measurement of GHG, is it decided by technology mix, generator by generator, or facility by facility?
W.Ramos: It's a different regulation that determines how people report what their emissions are. I think it's a combination of formulas and measurement.
D.Cain: Measuring technology like a monitor system?
M.Meal: The thing I'm not sure about is any given gas turbine, depending on its age and technology, is going to have a different level of GHG emissions per megawatt hour. We can follow up on that.
J.Buendia: What other entities are in a similar state as SFPUC, receiving allocations, but not major polluters?
M.Meal: We're probably the lowest GHG emitting electric utility in CA, except maybe Trinity. Other utilities like Alameda and Silicon Valley Power have a relatively high mix of renewables in their portfolio, so they're more like us. A lot of utilities purchase a lot of power that comes from fossil fire sources. They're not burning fossil fuels, so they don't need the allowances to cover their own emissions. But they need them to cover the increased costs that they'll get charged by the people selling them the electricity.
W.Farrell: Are the allowances good for a year or forever?
M.Meal: These allowances are what we're getting for 2013. Those allowances don't expire, but our only option for selling them is to sell all of them through the 2013 auction process. We don't have the option to hold onto the allowances and use them later. There is a bit more information in the memo on how the auctions work, which includes the details of dates and quantities. Keep your eye out on November 14, as that will be the first real significant market activity.

Public Comments:
Tom Hardy: You had mentioned Silicon Valley Power. They were mentioned recently buying dirty coal from Albuquerque.

** skipped back to item 5

7. Future Agenda Items: Members will email Chair with suggestions. C. Sheehan will also work with AGM Power Enterprise Barbara Hale for additional topics.
Public comment:
Tom Hardy: Job creation with energy and small business development, local veterans.

8. Announcements/Comments

9. Adjournment at 06:48 p.m. S.Bjorgan moved; T.Ko seconded.

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MEETING AGENDA

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5:30 p.m. – 7:00 p.m.
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Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **September 4** meeting minutes
3. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*5 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **Community Choice Aggregation (CCA) CleanPowerSF Update** (*15 minute presentation, 15 minute discussion*)
7. Future Agenda Items (*10 minutes*)
8. Announcements/Comments
9. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

Approved Minutes
Tuesday, October 2, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Jessie Buendia (D6) Ted Ko (B-Small Business)
Stephen Bjorgan (M-Eng./Financial) Walt Farrell (D7) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Chair Cain called the meeting to order at 05:41 p.m.
   Present: D.Cain; W.Farrell; A.Jamdar; S.Bjorgan; T.Ko
   Absent: J.Buendia;

2. Approval of the **September 4** meeting minutes
   W. Farrell moved; S.Bjorgan seconded. Minutes approved by acclamation.

3. Public Comment: none.

4. Report from the Chair: Doug Cain
   The subcommittee will get more information from AGM Barbara Hale (B.Hale) about the funds from the cap and trade allowance later tonight. He suggested members to provide feedback on future agenda items, which will also be discussed later during the meeting.
   ** skipped to item 6

5. Staff report: Teresa Young
   There will be a new date for the Full CAC meeting: the third Tuesday of the month. An email was sent out this afternoon notifying members. All concerns and feedback should be sent to Terrence Jones (Full CAC Chair).
   B.Hale: Regarding the cap and trade sale of allowances, the first Air Resources Board (ARB) auction of allowances will be on November 14. We are required to participate in the auction and it is our intention to auction all of the allowances that we were awarded by the ARB. The ARB has set a floor price of $10 per allowance. At that price, if we sold all allowance in first auction, it is at that floor price. We are restricted on spending the revenue on things to assist the state to achieve its greenhouse gas (GHG) goals. It is our expectation that because ARB is imposing the cap and trade program, the price of electricity will increase generally. We are allowed to use the proceeds from sales to mitigate the impact it will have on us. We are obligated to provide a statement of the program on how we actually spend the money to our Commission and ARB. This is a reporting obligation that we have because the allowances we have are from the California ARB. We don't know how much we're actually going to get in the auction. It's never happened in CA before. We'll be asking for the authority to spend in those ways, but we need approval through the typical budget process. We don't have a plan at this point. There will be a subsequent auction in the first quarter of 2013. The program will further the goals of AB32 and benefit our ratepayers as well.

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General Manager

6. Presentation and Discussion: **Community Choice Aggregation (CCA) CleanPowerSF Update** and **Presentation**, Assistant General Manager Power Enterprise, Barbara Hale

Discussion and Q&A
T.Ko: Are you only opting in half of residents?
B.Hale: We are going out to half of the residential accounts in San Francisco and we expect half of that group will opt out. If more people opt out than what we expected, then we will reach out to more residential customers because we need to hit that targeted megawatt (MW) amount. Under state law, anyone we offer service to during this opt out period is in unless they opt out. What we're proposing to do is reach out to half of residential accounts in SF and ask them if they are in or out. Anyone who says "no" will not be in the program. Based on our market research, we expect half of the half to say "no".
T.Ko: What about the other half that you didn't send the opt ins to?
B.Hale: They may opt in if they wish to. They will remain PG&E customers unless they opt in. In negotiating the contract with Shell, we looked at their financial request from the City, the amount of megawatts they will sell to us and still participate, and that's how we arrived at the 20 to 30MW figure. When we look at consumption in SF, most SF residential accounts (about 43%) are only tier one consumers, which means they are low energy consumers. When we went out with market information and did our survey to gauge people's opinion about renewable service and tolerance for paying more, about half of the residential folks said, "no thank you." In order to take the 20 to 30MW figure knowing how many folks would opt out and their typical consumption, we figured we need about 90,000 accounts to consume 20 to 30MW worth of supply.
A.Jamdar: What is the total number of residential accounts in SF?
BHale: There are 330,000 residential customers.
W.Farrell: Are these residential customers?
B.Hale: We are proposing to enroll residential customers, but anyone can opt in. If you're a commercial account and you want into the program, we'll queue you up to join the program.
T.Ko: Are you going to outreach to anyone to opt in?
B.Hale: We are planning a customer education and notification program, using TV, billboards, and media that is general in their communication. We'll also do more targeted outreach. As you're aware, the mayor is very interested in doing some outreach to test enrollment interest. As I get into the modifications to the authority we were given from the Board of Supervisors, you'll see a strong emphasis in public education.
T.Ko: For local renewable generation, is it only on City owned property or residential home rooftops?
B.Hale: With the GoSolarSF incentive, we intend to build on residential rooftops. In other components of the local build out, it's not just the individual customer scale, but utility scale. The contract we have with Shell has a clause that allows us to replace supply from them. As customers become interested in the program and we have the finances to build, we can match up those customers up.
W.Farrell: Right now there are no sources of power. PG&E now has solar, so they can say to people that they are getting solar generated energy.
B.Hale: PG&E has about 20% renewables in their portfolio right now, some of that is solar. This program provides is 100% kilowatt (KW) hours are from renewable sources, that's what is distinguishing this program from PG&E.
W.Farrell: The PG&E bill will be based on solar generation. What you're wheeling is whether it actually comes from solar or not.
B.Hale: It doesn't matter what the kilowatt product is, the wheeling costs from PG&E are the same. Shell owns renewable power, and they broker renewable resources already.
A.Jamdar: Are there more resources for Energy Watch?
B.Hale: It's more energy efficiency dollars for CCA customers. Energy Watch isn't restricted in that way.
A.Jamdar: In terms of public engagement, along comes with the tenant and landlord issue in multi-family housing. How are you going to address that? It may not be in the landlord's interest to do energy efficiency. If you're talking to a tenant, are you going to mobilize tenants to talk to their landlords?

B.Hale: The choice to opt in or out is by the choice of the customer on record. Everyone has an individual electric meter, but not an individual water meter in a multi-family home. Electricity is typically billed per unit. I don't think we'll have those barriers as much. We may have low income customers that are tenants and want to engage in the energy efficiency and solar program. In that case, we will need to work with the landlords.
C.Sheehan: We were at Sing Tao Radio last week and began outreaching to non-English speaking communities. We've been doing that for the last two years on and off and sent out mailers in three languages. We are building upon the base that began two years ago. I do think that by the time we launch and begin energy service start up, people will be aware. That is our ultimate goal.
S.Bjorgan: What is the level of investment for marketing?
C.Sheehan: We have a marketing/advertising/public education and notification request for proposal (RFP) for $1.4M and we should begin working with the contractor next month. It is for a five year span. In addition to that, there is funding earmarked as the program starts up and generates revenue for ongoing outreach, notification, education and customer retention. The majority of the $1.4M is for the opt out program/period. Once you get a stable customer base, it is more about customer notification and educational updates. It is mostly for a one year plan.
W.Farrell: What is "not to exceed rates"?
B.Hale: We need to understand what affordability means. We need to set a rate that we project will recover all of the costs for running a 100% renewable program and recover the initial upfront investment. Those rates are estimates taken to the Rate Fairness Board (RFB) and our Commission. Once we've gotten closer to initiating the program, we will ask Shell to give us a firm price for all services, elements, types of power that we are contracting from them. That price will be used to set the final rate. We will not sign to commit purchasing power unless it results in the rate below the "not to exceed rate" that has been adopted. As staff, we need to have some benchmark for what is a reasonable rate before we make a financial commitment with Shell. By going through this process with the RFB at the "not to exceed" level, we will have that benchmark to go to Shell with a price. They will survey the market and have a price that is good for a 24 hour period .We need to factor that price in our rate model. If it's below that "not to exceed rate", then we can recommend it to our Commission for signature. Once we sign that confirmation agreement with Shell, we are financially committed. They must guarantee that price for five years.
A.Jamdar: I'm curious how the Marin CCA program is a benchmark for SF in terms of market research? Is it by affordability?
B.Hale: The Marin customer base is very different. They launched their program with an initial focus on the largest consumers. Our customer base is very different. Most of our residential customers are small consumers and they don't consume a lot of energy in their homes. We start at a very different place. Marin's Shell program has both a light and dark component. The base product that they're offering everyone is not a 100% renewable product. We're offering something that is very different for customers. The weather there is different enough that the characteristics and use are quite different. They have a greener focus than PG&E and that's where the similarities end. Our product is a different product.
W.Farrell: Suppose you don't get enough customers?
B.Hale: We will be making a commitment to purchase up to 30MW. If we have a lot less than that, notwithstanding our efforts to educate customers, we have provision in the contract to unwind the commitment to Shell.
D.Cain: To what extent?
B.Hale: The unwind financial obligation is capped at $16M, but it is a damages style of cap. If they're able to take the 30MW and resell it for an equal or better price, we will owe them nothing. If they are able to resell for a lower price, we only owe them the difference up to $16 million.
S.Bjorgan: I'm being billed in kilowatt hours. What is 30MW a year in KW hours?
B.Hale: I'll have to come back to you with that information.
S.Bjorgan: Is there framework on how to spend the $6M investment?
B.Hale: We don't have the program completely flushed out yet. We just received guidance to have it targeted to low income customers, so we have some work to design those program elements. The GoSolarSF program is more mature for us, so it's easier to envision how we can target that part of the $6M. The $2M in energy efficiency services is above and beyond the services we already pay for as PG&E

customers. All of us are still able to take advantage of the energy efficiency services that are available as PG&E customers, because we will continue to be PG&E customers under the CCA program. As for the $2M for low income energy efficiency - we need to take a look at what's available to customers from PG&E and how do we augment that with this $2M for target low income.
S.Bjorgan: So if 5% of the population is low income, can they consume the $2M in energy efficiency benefits?
B.Hale: Given our experience with the low income uptake on GoSolarSF, I don't think we'll have trouble spending the money. I think there will be interest, but the challenge here is to make sure we're really reaching folks, educating them, and overcoming barriers.
A.Jamdar: Do you anticipate any malicious push back from PG&E?
B.Hale: I wouldn't expect them to lower their service standards. We participated in a legislative process that established customer protection rules around CCA and counter marketing by other utilities. Unlike Marin when they first launched their program, there are now rules around engagement with customers. You can't mislead. That applies to us as much as to PG&E, which is why this is a customer education and notification program. It is not just our $1.4M program, but also the effort on PG&E to educate customers about their program offerings. PG&E did ask the California Public Utilities Commission (CPUC) to offer a green tariff program, so that they have a 100% renewable product to compete with our 100% renewable product offering.
D.Cain: What is the counter with PG&E?
B.Hale: Part of that goes to the customers' knowledge. That's a heavy lift for us because it's not the same product. What PG&E has proposed to the CPUC is a product that is more reliant on renewable energy credits, and less on bundled renewables.
D.Cain: Why did you bring Nobles Americas on board?
B.Hale: Ultimately, we want to get to the point where our Customer Affairs Bureau is the voice on the other end of the phone with CleanPowerSF questions. As we launch, a lot of communications is going to happen. We want to address that need for additional resources. Nobles Americas provides more than just answering the phone. They are going to manage the data set and get the data ready to share with PG&E, so that customers are appropriately informed. They have to observe customer privacy requirements. It's a service they're providing with Shell to Marin and they provide the same service to direct access service customers. They have a track record with PG&E that keeps this moving smoothly.
D.Cain: Is there quality of service monitoring?
B.Hale: Yes, there is.
D.Cain: Are any of the green test bed projects contributing to local generation? It would be good to see presentation on actual technologies.
B.Hale: The green test bed projects are less mature and less tested. For CCA, we don't want to be testing. We want tested technologies. We have already looked at renewable energy development opportunities on land that we own. We know that there is 60MW of developmental capacity. We haven't developed it, because we don't have a customer base to provide it to. We're not a merchant generator. We looked at the opportunities as a tool for meeting meet our renewable portfolio standard obligations. With the legislation and law having adopted an alternative compliance program for us, which allows us to include large hydro, it became unnecessary to pursue those opportunities. We can develop that for our CleanPowerSF customers.
D.Cain: Is there a future plan to take local generation processes and use it for CleanPowerSF?
B.Hale: That's the long-term vision: to own resources to provide service. We see lots of benefit to have ownership, both on the power and water side.
D.Cain: Because we generate power and sell power, and very possibly, going to buy back the power we're selling, isn't Shell going out to the open marketplace and buying that power?
B.Hale: Shell wouldn't be able to buy Hetchy power because we only sell it to non-profit entities who are consuming it. The contract provides us to use Hetchy power to the extent that we can commit to a schedule. The Hetchy system is operated as a water first system. We don't flow water to create power. We have a hard time committing to say that we will provide an amount on peak to Shell for a set long term.

W.Farrell: Is this a way to bring public power?
B.Hale: It's decidedly not public power, because fundamentally public power is relying on publicly owned transmission and distribution assets. This program does not. It is a partnership program. The state law requires us to rely on PG&E to provide a lot of services.
W.Farrell: Where does the $19M come from?
B.Hale: It comes from the Hetchy operating revenues.
W.Farrell: Could they use that money to repair and replace some of the upcountry facilities?
B.Hale: Most of that money between $13M of that 19M will not be spent unless we're in the unwind mode in the program. That is collateral to meet our reserve requirements. We wouldn't be allowed to spend it. The $6M that we're spending on energy efficiency, local build out, and GoSolarSF, could be used for Hetch Hetchy capital projects.

Public comment:
Kirk Cowgill: Is the $1.4M going to go to a consultant and they will spend it?
B.Hale: The $1.4M will be for the consultant.

7. Future Agenda Items
   - Update on green test bed
   - Local generation program 60MW
   - Wireless controls streetlights
   - Renewable resources procure to comply with SBX1-2

   Public comment:
   Kirk Cowgill: Who did you ask to give the PG&E streetlight presentation?
   Charles Sheehan: We contacted Ontario Smith.

8. Announcements/Comments:
   The next Power Subcommittee meeting on November 6 will be rescheduled to November 13 due to Election Day.

9. Adjournment at 06:47 p.m. D.Cain moved; T.Ko seconded.

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Notice of Cancellation
Tuesday, November 6, 2012
Citizens' Advisory Committee Meeting
Power Subcommittee

Meeting is Rescheduled to
Tuesday, November 13, 2012

SF
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11/6/12
cancelled

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee Power Subcommittee, scheduled for Tuesday, November 6, 2012 at 5:30 p.m. at 525 Golden Gate, 2nd Floor O'Shaughnessy Conference Room, has been cancelled due to Election Day.

The meeting has been rescheduled to Tuesday, November 13, 2012 at 5:30pm at 525 Golden Gate, 2nd Floor O'Shaughnessy Conference Room.

We apologize for any inconvenience this may cause.

Thank you,

SFPUC Communications

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Mayor

Anson Moran
President

Art Torres
Vice President

Ann Moller Caen
Commissioner

Francesca Vietor
Commissioner

Vince Courtney
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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, November 13, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **October 2** meeting minutes (*5 minutes*)
3. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*5 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **RPS Procurement Plan to comply with California's Renewable Energy Resources Act** (link to additional **background info**), SFPUC Power Enterprise (*15 minute presentation, 15 minute discussion*)
7. Future Agenda Items (*10 minutes*)
8. Announcements/Comments
9. Adjournment

Additional materials not listed as explanatory documents on this agenda, if any, that are distributed to the SFPUC Citizens' Advisory Committee (CAC) prior to or during the meeting in connection with any agenda item will be available to the public for inspection and copying in accordance with Government Code Section 54954.1 and Sunshine Ordinance §§ 67.9, 67.28 (b) & 67.28 (d), at 525 Golden Gate Avenue, 12th Floor.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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Meeting Minutes Approved

Tuesday, November 13, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call at 5:32pm when quorum was achieved.
   Present: D.Cain; W.Farrell; A.Jamdar; S.Bjorgan; T.Ko
   Absent: None
   Staff Present: Meg Meal, Jim Hendry, Teresa Young

2. Approval of the **October 2** meeting minutes
   W.Farrell moved; A.Jamdar seconded. Minutes approved by acclamation.

3. Public Comment: none.
   Public Members Present: Kirk Cowgill

4. Report from the Chair: Doug Cain
   Discussed Future agenda items – see item 7

5. Staff report: Meg Meal
   M.Meal: We gave an update on two items: Greenhouse gas (GHG) verification report and energy efficiency benchmarking. The GHG report is done annually and given to the Air Resources Board (ARB). Third party verified and checked. We don't have any GHG emissions that have compliance obligations required of them. The retail sales we report are the sale we make to our end use customers, don't include the wholesale customers. On the generation/supply side, we only need to report if we have actual GHG emissions from generators or out of state.
   D.Cain: Will that come into play for the Community Choice Aggregation (CCA)?
   M.Meal: We would need to report as an energy/electricity provider, but to the extent that the CCA doesn't own or import their resources.
   M.Meal: Barbara Hale gave update on CCA in terms of outreach and early notification on the launch of the program with updated timeline.
   M.Meal: We need to update the CCA implementation plan that will be filed with CPUC and updates for arrangement with Shell as power provider with other requirements regarding how we're going to launch the program. That implementation report was submitted and approved by the Commission to go onto the CPUC. We also gave a presentation on the Procurement Plan.
   D.Cain: What about the benchmarking report?
   M.Meal: There was an ordinance that was passed to require all commercial buildings to be benchmarked with the amount of energy they are using. As a municipality, we helped all of the government buildings record that as one

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organized report. It's set up to be able to compare where each building stands in their energy use.
A.Jamdar: Is that uploaded to the Energy Star website?
M.Meal: I'm not sure, but the concept is that we will be able to compare in some way, and I'm not sure if we report to get a rating or if it's going to a Federal-level database.
A.Jamdar: How much of the benchmarking is done?
M.Meal: The information is updated annually, there are some places in the data where we couldn't report because the building was either under construction or we didn't have the data, but most of it is complete. A good percentage of the inventory did not fit into the Energy Star building types because they're odd ball things like not all muni facilities fit in, water treatment facilities, they have standard office buildings or restaurants, things that we don't necessarily fit into. There we did other benchmarking to help provide a comparable analysis. The underlying data, I'm not sure.
S.Bjorgan: Is this the same program as the large building owners? Is it the same policy that's not disclosed?
M.Meal: This is the same program.
D.Cain: I'd like to share about the Hestia Project. The Hestia Project was done in Seattle and Portland, which analyzed and diagrammed the cities' entire greenhouse gas (GHG) categories. The Project captured all of the locations in the city over certain periods of time, during the day, throughout the year, and they can even see the specifics of when and where exactly energy was used. It's all online. I have a theory that this program will become very useful and important when people start having to pay attention to energy usage. This program could be useful to the PUC in terms of having all this information organized and accessible. Money could be an issue, Seattle greatly subsidized.

6. Presentation and Discussion: **Renewable Portfolio Standard (RPS) Procurement Plan to comply with California's Renewable Energy Resources Act** (link to additional **background info**), SFPUC Power Enterprise, Meg Meal and Jim Hendry

   Discussion and Q&A:
   W.Farrell: What's the renewable energy credit (REC)?
   J.Hendry: It's going to operate with renewable resources, and with each new one you use you get new credit, each megawatt of renewable energy becomes a credit. Under new law there is a compliance obligation to meet a certain amount of credits. We can go out and by renewable energy and renewable energy credit which becomes a bundled product. You can apply this credit to meet the compliance obligation.
   W.Farrell: Does that mean you can use convention energy?
   J.Hendry: You could end up buying brown energy to keep the lights on and then buying renewable energy credit to offset that
   T.Ko: What is the market for that now?
   M.Meal: For the REC alone, we're seeing about $1 per REC.
   T.Ko: Is this a California REC market?
   M.Meal: It would be equivalent to a bucket three.
   D.Cain: What is bucket three?
   T.Ko: A bucket three rack is not attached to any energy anywhere. It could be a REC from out of state. One and two are RECs generated in state, generated in California's energy system.
   D.Cain: Why the bucket categorization?
   M.Meal: Under RPS legislation, most entities have limits on three different types of RPS products. Most have limits on how much they can use, there are minimums and maximums. SFPUC obligations don't have those limits
   D.Cain: What were those limits?
   T.Ko: One of the big fights on RPS was how much could you get from out of state, ideally we want them in state, So those limits were how much you could actually buy out of state.
   A.Jamdar: For the REC, who are you buying credits from?
   M.Meal: You're buying from several counter parties, different utilities, financial institutions, brokers, etc. there's a whole range that have these product.

D.Cain: How long has this market been around?
T.Ko: Different kinds of markets, is a better way to state it.
J.Hendry: RECs have been around since 2001. CPUC went back and forth on how to unbundle the renewable energy around 2011 or 2010. Then this law went into effect in 2011 and is now with bucket requirements.
W.Farrell: How do these credits function?
J.Hendry: You register with REGIS and it covers the whole western United States. It basically gives you certificates that you report whatever you generate. You get certificates that state how much you generated. It insures that you only sell that renewable energy once. The RECs are tied to a real megawatt or renewable generation and the rules are to try to make sure to sell only once. The credit can only been taken one.
W.Farrell: If I buy many RECs, I can buy from fossil fuel generation?
A.Jamdar: If you buy the energy itself it would be double the cost.
J.Hendry: For the bucket one REC buy the energy and you buy the credit at the same time, either in state or buy from California. There's a preference for in state generation to keep the jobs in state, minimize generation costs, economic benefits, etc.
A.Jamdar: Would the credits replace the actual energy itself?
J.Hendry: No it would mostly be a combination, bundled the energy and credit or just the credit.
W.Farrell: What's a POU?
J.Hendry: A POU is a Publicly Owned Utility.
T.Ko: What was the limit for the amount of money for risk management?
J.Hendry: $4M set aside in an account, look at account and other contingencies to factor.
T.Ko: So, the plan that was adopted today wasn't specifying what the amount was, correct?
J.Hendry: That is correct. It is no more than the money in the account but it could also be less, we're planning for other contingencies. The plan said to set aside in the budget X amount of money based on forecast. 10 year forecasts and the uncertainties, an estimate or expected dry year/shortfall and budget for that to cover it. If it gets worse that than, we go into risk management fund. If it gets really bad, we can use the authority under the Act and not go beyond that. It's a cascading projection.
T.Ko: One dollar seems really cheap
M.Meal: In the short term it's a lot of wind?
W.Farrell: If PG&E needs to have X renewable energy by 20XX, that's going to raise rates eventually, correct?
J.Hendry: The CPUC is looking into that and trying to decide and models on how much rates will go up. Their assumption going into infrastructure is due to infrastructure needs. The rates will probably go up depending on what happens, as you build renewable energy it will become cheaper.
W.Farrell: The price of natural gas is going down.
J.Hendry: Rates going higher than inflation than 1% a year.
T.Ko: Because of the infrastructure costs, a lot of utilities are looking at bigger rate increases because of the aging infrastructure and replacing it.
J.Hendry: We're small fish in the ocean. We have a cost limitation to protect our rate payers. If things get really bad, we don't have to comply with the Act. The CPUC is supposed to adopt cost. That will become a safe guard and they will have to make a policy. We are willing to pay more for renewable energy, but only to an extent that makes sense financially. The Act says there should be an upper limit. We might not reach the 33% goal if costs become too much.
S.Bjorgan: What's a wet year? Is that by rainfall or snowfall? If we anticipate climate change and figure that out we have a lot more rainfall than snowfall.
J.Hendry: We roughly think of standard deviation. It all changes over time. If you look at the last 30 years, there's still a good gap from where we are.
D.Cain: Have they calculated a pattern or trajectory? And what's the impact on generation?
M.Meal: The work that Jim and I have been doing, we're relying on forecasted generation looking at general hydro patterns. Whether it is rain or snow fall we analyze the flows and take that information as to how much generation we'll get. We do our forecasting based on this analysis. We don't know the answer as to what is driving generation. That's the question for the water folks.

D.Cain: The key question here is if any calculation is being made for climate change?
M.Meal: I'm pretty sure that primarily through Water, they do a lot of adaptation analysis and what will happen in the watershed. Most of our forecasting is about out 10 years. That actually won't show up in our forecasting 10 years. Maybe we need to start looking beyond that.
D.Cain: How often do you review or revise your calculation?
M.Meal: I'll have to look into that.
J.Hendry: The goal for these forecasts going out, was a little off this year. Going forward, we'll be updating these numbers the same as the budget planning process. The water folks should feed into our numbers. We want to make sure the numbers are consistent across enterprises and budgets.
T.Ko: That could be a presentation – how we're forecasting climate change and flows in how it affects generation.
J.Hendry: Snowpack moves or the amount of rain falls is seasonal. I know it has been talked about, not sure if it's gotten into the water department plans. There are people in the Commission looking into this.
S.Bjorgan: Do we run generators at full capacity or just at normal load requirements? Do we have excess energy to sell?
J.Hendry: We are covered by the water first policy. We run the system to meet our water needs. The need to meet the water demands will be how much we generate. Some of this (slide 3) will go to Turlock and Modesto. We have contracts with Turlock to sell them excess power going through 2015. The amount of excess is determined by water flows.
D.Cain: By selling to the wholesale market, is that contradicting Raker Act?
J.Hendry: We have to sell it to Raker Act compliant entities.
D.Cain: When we sell and make revenue off of that, does that go back into the SFPUC fund or to power enterprise?
J.Hendry: It goes back to the SFPUC budget. We factor into the budget, a normal year of how much we sell. We have funds to go back on in case we don't make enough in a year so that we don't have to sell to people we're not supposed to.
D.Cain: The reserve fund – who finances it?
J.Hendry: I'm pretty sure it's Power, not sure.
M.Meal: It's set through the budget process. The risk management is adopted as part of the budget every two years.
D.Cain: The Power Enterprise looks like they're at the edge of borrowing. You have two enterprises with two separate bond authorities. Where is the money going to? That 12,000MWof Distributed Generation (DG), how is that going to impact the RPS system in general and us if we do 60MW of local generation? In other words, we're talking about increasing our own local generation?
T.Ko: 12,000MW is a goal, not a mandate.
D.Cain: The City can generate 60MW. There's thinking about that. Would that add to our revenue producing capabilities?
J.Hendry: I think that would go for the CCA side. This goes to the MUNI side. They're looking at the local build out on the CCA side. There may be certain City facilities that can do that.

7. Future Agenda Items
   - **Wireless controls for streetlights (3)**
   - Update on green test bed program
   - **Local generation program for 60MW (1)**
   - Disaster Preparation for Power Enterprise
   - Power Enterprise Bonds in Future Financing
   - Hetch Hetchy Water & Power Capital Enterprise Report – as it relates to Moccasin Equipment/Facilities due for 2014
   - GHG verification report (routine report)
   - **Energy Benchmarking Report for SF Municipal Buildings (2)**
   - Power outages on Treasure Island – who's going to pay for it, what's the plan for system building
   - How are we forecasting climate change and flows in how it affects generation?

- How does SFE, other agencies and the Power Enterprise work together?

8. Announcements/Comments:
   The next Power Subcommittee meeting is scheduled on Tuesday, December 4, 2012.
   A.Jamdar will not to be here on 12/4; T.Ko will not be here 11/20.

9. Adjournment at 6:43 p.m. T.Ko moved; S.Bjorgan seconded.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, December 4, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **November 13** meeting minutes (*5 minutes*)
3. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*5 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **2011 Energy Benchmarking Report for San Francisco Municipal Buildings** (link to additional **background info**), SFPUC Power Enterprise (*15 minute presentation, 15 minute discussion*)
7. Discussion and Possible Action Item: Proposed Resolution Around Energy Efficiency (*15 minutes*)
8. Future Agenda Items (*10 minutes*)
9. Announcements/Comments
10. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

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Meeting Minutes Approved

Tuesday, December 4, 2012
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call at 5:38 p.m. when quorum was achieved.
   Present: D.Cain; S.Bjorgan; T.Ko; W.Farrell;
   Absent: A.Jamdar;
   Staff Present: Jonathan Cherry, Teresa Young

2. Approval of the **November 13** meeting minutes
   T.Ko moved; S.Bjorgan seconded. Minutes approved by acclamation.

3. Public Comment: none

4. Report from the Chair: Doug Cain

   Really interested in distributed generation (DG), but it may be a discussion between private companies. What caught my attention were T.Ko's comments from the previous meeting about DG posing as a good alternative.
   Future discussion topic: How DG ties into governor's plan for DG. LISTEN. The report has a strong emphasizes on DG in SF (item C in future agenda items). Local generation is not necessarily CCA power (T.Ko).

5. Staff report: T.Young
   The Power Enterprise is gearing up to begin a series of three community meetings (December and January) at which we'll discuss with the public our upcoming Street Light Wireless Control Pilot Project. Each of the three meetings will be in one of the three pilot test areas. During the pilot we'll test LED street lights and wireless control systems that will help to monitor and control the street lights (including diming the lights during non-peak hours). The wireless controls will be able to support other functions, too like electric meter reading, pollution monitoring and traffic signal control.

   Also, we're working on a press event to announce the installation of a 50kW solar system atop Alvarado Elementary School. The installation is our first with the DPW, and the first on an SFUSD school. We'll be doing more of both (school installations and solar installation collaborations with DPW). The event is planned for mid-December.

   When it is available, Cheryl Taylor (Power staff who gave the presentation on CCA at November's Full CAC meeting) will provide the CAC with a copy of the

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approved Customer Notification and Education Plan. She will provide this to T.Young when the joint LAFCo-Commission meeting minutes are released.

6. Presentation and Discussion: **2011 Energy Benchmarking Report for San Francisco Municipal Buildings** (link to additional **background info**), SFPUC Power Enterprise, Jonathan Cherry

   Discussion and Q&A:
   D.Cain: Why is it only 10%? How do you know?
   J.Cherry: We're the electricity provider and we bill natural gas for the City, so we know how much energy each building is using.
   W.Farrell: How do you do your arithmetic?
   J.Cherry: All of our energy accounting groups enter the bills into Energy Cap, which they can also enter energy use.
   W.Farrell: When you divide the British Thermal Units (BTU) with the square foot?
   J.Cherry: I'll show you where that shows up in the report later in this presentation.
   W.Farrell: Do you plug in the weather?
   J.Cherry: These calculations are not weather normalized.
   W.Farrell: Does it have a bad boiler? Does the SFPUC provide steam heat?
   J.Cherry: No, steam is provided by city steam loop owned by NRG. We pay that bill for departments, but we don't generate steam.
   W.Farrell: Is that a steam sale system where they actually get the steam from the natural gas?
   J.Cherry: All of the buildings around Civic Center are all on the steam loop, plus Moscone Center.
   S.Bjorgan: Is the Municipal Transit Authority (MTA) excluded?
   J.Cherry: No. SFUSD and the Housing Authority are excluded because they aren't City departments. The Ordinance covers City Departments and was sponsored by Supervisor David Chiu and the Department of the Environment (SF Environment or SFE) was the driving force with the Mayor's Office. At first they focused on commercial buildings, but then they focused on residential buildings later.
   S.Bjorgan: Did these came from on-built?
   J,Cherry: This came from our energy accounting info.
   S.Bjorgan: Did anyone do an energy audit?
   J,Cherry: The audit was not as part of this exercise. Our energy efficiency team probably audited two thirds of the buildings here.
   S,Bjorgan: Does this flow into the greenhouse gas (GHG) reporting?
   J.Cherry: There are two parts – the base data is the same data we provided to SFE, so that all departments can update their climate action plans. I'm actually presenting this report tomorrow to the reps from each department that have the climate action reports, to discuss whether this will help them in their target setting for annual reporting.
   S.Bjorgan: Is there a departmental challenge to decrease the carbon footprint? Is there motivation to decrease carbon footprint?
   J.Cherry: I think it's the City's overall climate reduction targets. There's no formalized competition. I think that's a worthwhile discussion. The competition aspect is the departments putting out their reports, there may some competitiveness there.
   D.Cain: Why? We've got what. Why are they doing this?
   J.Cherry: The main objective here is you can't change something you don't measure. Our purpose is showing how people are doing it in a meaningful way. Hopefully we are equipping them with information and giving them a competitive spirit will encourage them to take next steps.
   D.Cain: I thought this should include comparing the audits. Without an audit, it doesn't really provide an action plan. It will be good to have an energy efficiency plan for the City. I'm not clear if there is one. This data would feed into an energy efficiency plan that will go into climate change implications. If every department has this as part of their energy mandate, this data appears to be missing here. I think it's important that benchmarking is a tool to reduce our energy and increase our efficiency. The City departments get subsidized power and they don't have a cost incentive to implement energy efficiency programs.

In lack of cost factors, it's really called out from on high. Efficiency and energy use reduction is one of those operational goals for all departments. Are the energy audits available online and/or done by the SFPUC?
J.Cherry: The audits are not currently online. The audits are done by the SFPUC energy efficiency group.
D.Cain: Can we make that recommendation to put that online?
J.Cherry: These are all excellent points. This is the first time we're doing this. We actually feel pretty good about the energy use divided by square footage. I agree needing to inform a strategy and convincing departments that this is important. I think we can't as an agency tell other departments what their goals should be. On an individual building basis, we have done that by making recommendations. We would love create suggestions to go out there, but our budget doesn't allow us to do so. We don't have the funds to do that. And regarding the funds that you mentioned, they don't have a profit incentive do to so. We would love to figure out how to make it more comprehensive and build strategy around it. Our energy efficiency group is developing targets. They are a team of seven people and managed by John Doyle.
S.Bjorgan: I suggest taking the lowest tier of energy sucking, polluting buildings and do a retro-commission.
J.Cherry: We started a retro-commission this year for public buildings. It's run a bit differently than our energy efficiency audit and retrofit program. We are trying to make the case to departments that it's worth it for them to pay for the retro-commissioning. The difference is evaluating and making system work correctly. An audit is identifying replacement systems and changed out.
W.Farrell: Most of these buildings are heated by gas, correct? So how do you get that data?
J.Cherry: Almost all buildings are heated by gas – we act as the building agent for the City. We pay the PG&E bill and rebill the departments, but not for all cases. The Port and SFO pay their own. SFUSD as well.
W.Farrell: You must apply electric and gas use and do it all on BTUs, correct?
J.Cherry: Correct.
D.Cain: Schools, Port, SFO get their power from the SFPUC. How do they get outside the building system?
J.Cherry: I was talking about just the natural gas, not the electricity.
D.Cain: We are considering developing a resolution to recommend energy usage to be benchmarked. Taking this info with your energy audits and retro-commissioning, establish some sort of goals for energy efficiency by department by building, is that being done?
J.Cherry: Under Mayor Newsom, there were some energy efficient/climate savings targets established. I don't believe they exist department by department. It was the Mayor's executive order. Not sure which group it came out of. We have city-wide climate goals adopted by the Board of Supervisors, but I don't believe we have department energy efficiency goals adopted by the Board of Supervisors.
D.Cain: If we set off to make this an important goal for the SFPUC, am I framing this the right way? Are we putting it in such way that it's doable?
J.Cherry: Our limitation is staff time, it is a major undertaking. This report could be much better, but it is the best there is currently. A lot of cities are pressuring themselves to release this data. The info that's out there right now is limited and databases do exist, with exception of building types. There is no national data set for those building types. It'll begin to change. As far as how you would set meaningful targets for building types, that's the big question – how do we know if these buildings are performing better? There isn't enough information to really see who is performing better than others, so it'll take time for us to understand. Ideally we'd have energy audits for all of these buildings and right now we're cost constrained. We've done extensive energy audits on the Port and SFO. We'd like to go back every few years, but we don't have the budget.
D.Cain: What if you focused on the Department of Public Works' (DPW) operations? Have they been trained on energy efficient operations?
J.Cherry: That's an opportunity area.
D.Cain: Does the SFPUC have any influence over these people, in building maintenance and energy efficiency?

J.Cherry: They have contact with building engineers for individual buildings. There is an educational process for individual builders, but we don't have a citywide program to educate city operators.
S.Bjorgan: Its capital expense that they need to budget for in advance, so that speaks against doing this quickly. Energy is too cheap is the takeaway for me.
W.Farrell: How long have you been doing this?
J.Cherry: We started this work 12 months ago. It took about 6 months to get information that we're comfortable with moving forward.

7. Discussion and Possible Action Item: Proposed Resolution Around Energy Efficiency
S.Bjorgan: There are three topics to talk about. The first one references the Department of Building Inspection (DBI).
D.Cain: When you go to DBI as a commercial user, they have consumer hand-outs to tell you what you expect when you go through the process. The SFPUC has water fees, depending on how many water outlets you have in that facility. A goal is to make the permit process to be more transparent, accessible and user-centric.
S.Bjorgan: First we want to solicit input to see how best to make these succeed.
W.Farrell: Why worry about the permit process? is it difficult?
D.Cain: It is, because I read in the New York Times, that San Francisco is a difficult place to get permits. It's part of the cost of doing business or constructing a building is so high here, part of it is regulations. Part of this is a disjointing permitting process. As much as the different departments are within proximately to each other, they don't really know what's going on, there needs better coordination and information out there.
T.Ko: Wow does that applies to the SFPUC?
S.Bjorgan: The SFPUC is starting to get into the permit approval process.
T.Ko: What you're trying to achieve is something you'd put out to the Board of Supervisors or the Mayor.
D.Cain: There just needs to be better information on the website as well. There is so much miscommunication within the departments, that the process is becoming so tedious, that SF is getting a bad reputation.

S.Bjorgan: The second proposed resolution is focused on energy efficient retrofits. I am sharing information to propose an energy efficient retrofit resolution made from energy savings that help with water bill. The CCA isn't the right place to build this function, because this is energy savings and CCA is power consumption. There's no method in the City except for CCA to put on PG&E energy efficient improvements. Although PG&E has a commercial bond bill financing program, it isn't the same as what I'm proposing. This is an adjunct to CCA offering municipal energy, and it compliments that by providing energy efficiency to the same retail population that's going to buy to income puts special entities on lower income, small businesses, etc., is paid from savings, and would be a public private partnership, where a bank bridge finances these retrofits. The financing goes on a bill, so the residents' bills will not go up because of energy retrofits, but will go down over time.
T.Ko: Why can't you put financing on the CCA bill?
S.Bjorgan: Because of retail energy costs.
T.Ko: Marin Energy Authority just got approved for energy efficiency programs. In their CCA arrangement, are they allowed to put other things on their bills?
S.Bjorgan: What about personal energy monitors?
D.Cain: Once they get digital meters, they can be read online. These monitors are accessible online and see which appliances are used in real time.
S.Bjorgan: No, you see a whole house, not the individual appliances. That's part of the smart grid they're going to use for demand response.
T.Ko: Essentially this is an ESCO for residential homes using on-bill financing to finance this. So essentially you're saying on-bill financing on water bills, because on-bill financing isn't available on PG&E bills.
J.Cherry: Sonoma County has actually done something like this on their water bill.

S.Bjorgan: Please review and provide feedback to me over email. Let's discuss the third proposed resolution about the City & County of SF buildings undergoing energy audits before sale. There is an unused green point breaking, people don't use rating disclosures when real estate is sold
D.Cain: To get certain points for energy star ratings, they look at installation of green plumbing, etc. They've shown that these houses sell for more.
S.Bjorgan: For commercial or residential?
D.Cain: Residential
J.Cherry: I think it's optional – if you want to add it to your record.
D.Cain: It's not an extra cost to the City. It's adding value to the property, whether the homeowner wants to add this.
W.Farrell: They used to do this. This was done 20 years ago.
J.Cherry: Reco ordinance. It still exists. It's the resident energy conservation ordinance. It hasn't been updated in the last 30 years.
D.Cain: It is not noted as a value on the title.
S.Bjorgan: Let's revisit this again in January 2013.

8. Future Agenda Items
    a. Wireless controls for streetlights
    b. Update on green test bed program
    c. **Local generation program for 60MW**
    d. Disaster Preparation for Power Enterprise
    e. Power Enterprise Bonds in Future Financing
    f. Hetch Hetchy Water & Power Capital Enterprise Report – as it relates to Moccasin Equipment/Facilities due for 2014
    g. GHG verification report (routine report)
    h. Power outages on Treasure Island – who's going to pay for it, what's the plan for system building
    i. How are we forecasting climate change and flows in how it affects generation?
    j. How does SFE, other agencies and the Power Enterprise work together?

9. Announcements/Comments – next meeting moved to the second Tuesday of January (1/8/13). First Tuesday is 1/1/13.

10. Adjournment at 6:59 p.m. T.Ko moved; D.Cain seconded.

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The regularly scheduled Power Subcommittee meeting on Tuesday, January 1, 2013 from 5:30pm to 7:00pm has been cancelled due to the holiday.

The meeting has been rescheduled to Tuesday, January 8, 2013 from 5:30pm to 7:00pm.

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cancelled

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San Francisco Public Utilities Commission
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MEETING AGENDA

Tuesday, January 8, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **December 4, 2012** meeting minutes (*5 minutes*)
3. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*10 minutes*)
5. Staff report (*5 minutes*)
6. Presentation by SFPUC Power Enterprise Staff and Discussion (*15 minute presentation, 15 minute discussion*)
7. Future Agenda Items (*10 minutes*)
8. Announcements/Comments
9. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

AMENDED MEETING AGENDA (Updated 1/7/2013)

Tuesday, January 8, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

82.2552
1/8/13
amended

ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the <u>December 4, 2012</u> meeting minutes (*5 minutes*)
3. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*10 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **Local Generation for 60 Megawatts**, John Doyle, SFPUC Power Enterprise (*15 minute presentation, 15 minute discussion*)
7. Future Agenda Items (*10 minutes*)
8. Announcements/Comments
9. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

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Approved Meeting Minutes

Tuesday, January 8, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call at 5:37 p.m. when quorum was achieved.
   Present: D.Cain; S.Bjorgan; W.Farrell;
   Absent: A.Jamdar; T.Ko;
   Staff Present: John Doyle, Charles Sheehan, Teresa Young

2. Approval of the **December 4, 2012** meeting minutes
   S.Bjorgan moved; W.Farrell seconded. Minutes approved by acclamation.

3. Public Comment: none.

4. Report from the Chair: Doug Cain
   D.Cain encouraged members to consider recruiting another member to join the Power Subcommittee.
   D.Cain also requested to receive minutes from prior to when the agenda is sent out, so that members to have more time to review.

5. Staff report: Charles Sheehan
   To clarify today's presentation about local Generation for 60 megawatts (MW), some of the proposed projects are located in the region as that's where the bigger potential generation is. The locations are still City-managed, City-owned, but not necessarily local.

6. Presentation and Discussion: **Local Generation for 60 Megawatts**, John Doyle, SFPUC Power Enterprise

   Discussion and Q&A:
   S.Bjorgan: Is geothermal acreage out of our management?
   J.Doyle: Yes.
   C.Sheehan: The Power Enterprise did an extensive study.
   J.Doyle: That's correct, we looked at our right of way between San Francisco and Moccasin.
   W.Farrell: If these projects are not economical, why do you think about them?
   J.Doyle: We think about them because there's a large political constituency. But, because people are coming now offering projects like Central Valley for example, for 8 cents per kilowatt hour (KWh). They're looking at building large project and they're getting all of the incentives and special financing. They've

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been able to get their costs down to something reasonably cheap.

W.Farrell: Doesn't that cause environmental problems?
J.Doyle: It all depends on what environmental problems you're talking about. Some of those problems could be about habitat (Mojave Desert Tortoise). It's benign technology. Solar photo voltaic (PV) and solar thermal are pretty benign. Solar thermal needs water for cooling, so that may be a problem. If you're going back to the manufacturing process, you can find some environmental problems. For example, the Chinese are dumping a lot of waste in nearby towns.
W.Farrell: You mentioned the Community Choice Aggregation (CCA), how is that coming along?
C.Sheehan: It is progressing. We are poised to set do not exceed rates with our Commission and the Board of Supervisors (BOS) within the next month or month and a half timeframe. After that, we would begin moving purchasing the energy. The rate setting is a big thing first.
S.Bjorgan: Do you know what the percentage of acreage is compared to what we own overall?
J.Doyle: I haven't figured it out, but I can give you a rough estimate. This would take about a square mile of land. It's probably 1 or 2 percent.
S.Bjorgan: These are the most optimal parcels we've found, correct?
J.Doyle: That's correct.
S.Bjorgan: I built a project 25MW on 29 Palms. It just finished and will be energized next month. My point is that it's being built for $2.15 a watt. We had to add a few cents for the Power Purchasing Agreement (PPA), but it's not coming close to $6 to $7 a watt. This is without subsidies.
J.Doyle: These numbers are very conservative. If this project took place two years ago, the cost for your project at 29 Palms would have been doubled. These numbers could come down substantially.
S.Bjorgan: Since you're on top of the energy efficiency topic, has the City issued any bonds for retrofitting municipal buildings? How is HVAC being financed?
J.Doyle: There were some bonds issued for this building. It is typically pay as you go. It gets funded two ways – we get an annual budget for energy efficiency, now it is shrinking. Other departments who have their own money have financed their own projects, SFO is an example. We've been involved as a consulting basis for SFO's projects.
S.Bjorgan: There's no concerted effort to on the part of the City to make municipal buildings more energy efficiency.
J.Doyle: There has been. In the last year and moving forward, SFPUC management decided there needs to be a big push on upcountry improvements. The upcountry infrastructure is in need of improvements, some transmission lines are 80 years old. We're looking at an infrastructure that's about 70-80 years old and a lot of upgrading needs to be done. Generators need to be refurbished, switch gears, etc. there's a deliberate movement going toward upgrading that infrastructure, then energy efficiency. The more energy efficient projects we do, we'd have to sell excess power on the market and can only sell to municipal utilities, not PG&E or for-profit entities.
C.Sheehan: In the past 10 years, how many energy efficiency projects have we done?
J.Doyle: We do about 20-30 energy efficiency projects a year, so overall we've done a couple hundred. The past ten years, there has been a concerted effort for energy efficiency on municipal buildings. Now since we're running out of money, departments are doing these projects themselves. It's not money coming from us, but the departments. School districts have been using their own money to do energy efficiency projects in schools.
S.Bjorgan: We recently received a presentation on benchmark results at the previous Power CAC meeting, what is being done to change the emissions of greenhouse gases (GHG)?
J.Doyle: Electricity from the SFPUC comes from 90% hydro-energy and we've tried to improve, except HVAC and boilers.
D.Cain: I'm trying to understand the drive for the 60MW. In terms of zero GHG, is that the motivation for this?
C.Sheehan: Whenever there is the potential for a new customer or large customer, there is this potential for use this land for these projects. It's waiting for a customer base.

J.Doyle: The caveat is that these are still intermittent technologies.
D.Cain: The eventual hope is that this will generate cheaper energy, then buying on the market?
J.Doyle: The hope is to get it down to a cheap price.
D.Cain: I'm also wondering what line items are in your budget (referring to S.Bjorgan's project) and what's in SFPUC's?
J.Doyle: (To S.Bjorgan) Is this confidential information? I'd love to see it.
S.Bjorgan: I can share it. The land and Power Purchase Agreement (PPA) info is missing on it.
J.Doyle: How do you connect to the grid?
S.Bjorgan: I connect through Southern California Edison.
W.Farrell: Does the Power Enterprise pay for itself or does it need to be subsidized?
J.Doyle: It pays for itself.
C.Sheehan: Last year, we raised rates on our general fund customers to pay for upcountry upgrades. It's looked at every other year.
J.Doyle: It's a rate increase over 4 years. There's a 10 year capital plan for a series of upgrades.
D.Cain: Are there near term upgrades by 2014?
J.Doyle: There are a whole series of items in the near term and another set five years or more.
D.Cain: I'm concerned that CCA won't get the critical mass that it needs.
C.Sheehan: We're doing a poll about price points. Our benefit is that PG&E rates generate 7.1-7.9 so that to our customer base the prices stay relatively flat, and combined with the latest price redraft with Shell the prices actually went down just a bit. All of this will go into the poll, and it worked in Marin and they had less than 20% customers that went back to PG&E.
D.Cain: If we drafted a resolution to encourage general fund departments to do more energy efficiency projects, how is the best way to go about that?
J.Doyle: If CCA did get going it would be a big encouragement for people to use power more efficiently. But mainly we are going to have to invest our money into energy efficiency as the supplier.

7. Future Agenda Items

   a. Wireless controls for streetlights – Mary Tienken
   b. Resolutions for future discussions - S.Bjorgan

8. Announcements/Comments – Next regularly scheduled meeting will be on Tuesday, February 5, 2013
   S.Bjorgan: last meeting you asked me to rewrite the proposal of the fee schedule. Does the subcommittee have to approve it before going to the full? I'm ready for the proposal when we have quorum.
   D.Cain: We can discuss that next month.

9. Adjournment at 6:36 p.m. S.Bjorgan moved; W.Farrell seconded.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, February 5, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

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Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **January 8, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*10 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **Wireless Streetlight Controls**, Mary Tienken, SFPUC Power Enterprise (*15 minute presentation, 15 minute discussion*)
7. Discussion of Future Resolutions (*15 minutes*)
8. Future Agenda Items (*5 minutes*)
9. Announcements/Comments
10. Adjournment

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Meeting Minutes - Approved

Tuesday, February 5, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

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Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call at 5:38 p.m. when quorum was achieved.
   Present: D.Cain; S.Bjorgan; W.Farrell; A.Jamdar; T.Ko;
   Staff Present: M.Tienken; T.Young

2. Approval of the **January 8, 2013** meeting minutes
   T.Ko moved; S.Bjorgan seconded. Minutes approved by acclamation.

3. Public Comment: none.

4. Report from the Chair: Doug Cain

   D.Cain was asked by Terrence Jones to develop resolutions. He encouraged the Power Subcommittee to develop resolutions as well.

5. Staff report: T.Young
   Charles Sheehan will make a presentation about wireless streetlight controls at a public meeting on February 12, 2013.
   Work for the wireless streetlight pilot areas is coming up this spring.

6. Presentation and Discussion: **Wireless Streetlight Controls**, Mary Tienken, SFPUC Power Enterprise
   Discussion and Q&A:
   D.Cain: Have you issued a Request for Proposals (RFP) for the lamps?
   M.Tienken: No, we have not issued an RFP yet. We haven't bought the lamps yet, because they need to be installed with the whole system.
   D.Cain: So, you're going to buy this from an integrated supplier?
   M.Tienken: We're working to buy that as a functional system from different suppliers. We need to decide on how we go with the control systems.
   T.Ko: What is the source of the delay? Is that going to start in one to two years?
   M.Tienken: The pilot project will take six months to assess. That will get us to July or August of this year. Then we'll issue an RFP for buying the products, but maybe the installation as well as a turnkey solution. That would take another six months. Hopefully we'll be doing installations this time next year.
   W.Farrell: So, it's not working well yet?
   M.Tienken: The pilot project has not been without problems.
   D.Cain: What kind of problems?

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M.Tienken: The system includes a node, which is installed on the streetlights, and a gateway, which communicates with the home base. Because there were so many cellphone towers in downtown, the gateway had to be moved three or four times before we found a place that it could communicate with the lights and back to the central server. Testing the strength of the gateways is part of the pilot project.
A.Jamdar: Are you going to test the same product and gateway?
M.Tienken: There will be seven products and all will be installed in Downtown. Three will be in Irving and four will be installed in Presidio Heights. The basic functions are the on/off schedule, failure detection, adjustment of the schedules, lumen adjustment, and other possible features that we're not sure about using just yet.
S.Bjorgan: So you can put a device on it and leverage the wireless network?
M.Tienken: Essentially. Most of the devices that were provided to us had more vision than reality. The system can't do all these things. Some do one or two things, but there's not a system that does all of these things.
W.Farrell: Is the problem communication? Does the data come in?
M.Tienken: It's mostly that the various devices are proprietary. They have communication protocols that only work with a certain type of wireless system. There are not that many devices that work on open standards.
S.Bjorgan: Is this ad hoc networking? Does each light communicate with the next one?
M.Tienken: Most of the systems are mesh networks. They communicate with all the lights within certain distances. There are also systems that communicate back with the gateway.
W.Farrell: How would it adapt to the fog? Would you make lights brighter?
M.Tienken: The system could dim lights during certain hours or conditions. Right now, the lights are on for maximum usage.
W.Farrell: Would it make it easier for robbers?
M.Tienken: We'll see. We met with police captains and they raised these issues. Different studies say different things about that. We'll have some local evidence.
S.Bjorgan: When was this directive conceived?
M.Tienken: The money available was $8M in July 2010.
S.Bjorgan: How much do we save in terms of money?
M.Tienken: We'll save about $500,000 a year in energy value. We pay PG&E for the wheeling cost.
S.Bjorgan: What's the simple payback period?
M.Tienken: When it was first modeled 2 years ago, it was 11-12 years. But as the efficiency has gone up, the cost has gone down.
D.Cain: What is the total budget is?
M.Tienken: $16M was allocated, and now it looks like it would cost less than that.
D.Cain: Something around $900?
M.Tienken: That's where we're seeing right now. The City of Oakland just awarded a contract that's at about $450-$500 a fixture and installation. That's the depreciation of cost.
W.Farrell: Where does the $150 go?
M.Tienken: The $150 is just the product cost, doesn't include installations. The $450 does.
S.Bjorgan: There were multiple funding sources. Did they provide any funding?
M.Tienken: $3M in the form of a 3% loan.
T.Ko: How many streetlights are managed by PG&E?
M.Tienken: 19,000. We're only planning to convert our cobra heads.
T.Ko: Are there any plans for PG&E to do something similar?
M.Tienken: We have encouraged them. They are interested, but I don't know if there is commitment.
T.Ko: Ideally, if they would do this, you'd want a system that talks to each other instead of two separate systems. If there are reported streetlight outages, it would go to a central system to be triaged out.
A.Jamdar: I just wondered how common it is in the United States for LED lights.
M.Tienken: LED lights are being installed everywhere: Walnut Creek, Alameda, San Jose, Los Angeles, and most East Bay cities. It's largely being limited by

funding. The project was funded before the crust of the wave. Now, the number of cities that has done conversions has grown.
D.Cain: With the installed base, why does San Francisco have to do this prototyping?
M.Tienken: The controls are preventing us from moving forward.
D.Cain: No one else has a control system?
M.Tienken: The control systems haven't been widely implemented.
D.Cain: Why is San Francisco choosing to pilot this?
M.Tienken: I think it's because the City is interested in using the most innovative solution available. The control system will cut down on operational costs by allowing us to know immediately if there is a problem.
D.Cain: Referring to the list of what these systems could do, each of the companies that you're testing only does a few of these.
M.Tienken: As a separate effort from what I described tonight, we are doing another pilot project related to controls that does do many of the functions mentioned. Because there were two different procurement efforts associated with the different pilot methods, this presentation is related to the most recent and biggest pilot projects. There is a system currently installed on Minna Street between 4th and 6th Streets that controls lights, and in the next few months we're connecting charging stations and the 5th Street and Mission garage along with traffic signal controls along Mission Street. That is a joint project with SFMTA to see if there is a miracle system that could do all these things. This will show us if there are opportunities to join efforts in these types of systems.
D.Cain: Does that mean SFMTA will chip in?
M.Tienken: That would be the idea.
D.Cain: Who gets to keep the intellectual property on all of this?
M.Tienken: The contracts that we developed say the provider is the owner of the intellectual property.
D.Cain: I thought you were taking two different suppliers and you're doing the integration?
M.Tienken: The vendors themselves do the integration. We'll be buying the system already integrated, so that we don't have the liability associated with making two products work together.
D.Cain: Do they give you warranties?
M.Tienken: The warranties are 5 to 7 years.
D.Cain: I think LEDs are expecting to go down below conventional buying. I'm wondering if you could take advantage of cost in those contracts.
M.Tienken: There is some language in our procurement contracts that allows us to capture the lowest price. On the flip side, if price goes up, it could go up in some standard index.
W.Farrell: If one of these things goes out, how do you see it?
M.Tienken: The node that's attached to the fixture communicates wirelessly to a laptop. It is a graphic display of the City that shows all SFPUC lights. There are different kinds of messages that show if a light isn't working.
W.Farrell: For an area where you want to adjust the lighting, could that be done too?
M.Tienken: That could be done by toggling a switch.
W.Farrell: Normally do they just go on and off?
M.Tienken: There's a photocell.
D.Cain: (To T.Ko) When these LEDS were first mentioned there was a list of the multiple uses, what is that?
T.Ko: This is already a pretty comprehensive list.
D.Cain: So when you put out your RFPs, where do you advertise?
M.Tienken: I'm not the person posting the RFPs. I'm not sure.
D.Cain: What companies are looking at these systems to bid on?
M.Tienken: There's Ripley out of England. Schripler is a German company. There's Simcon in Boston.

7. Discussion of Future Resolutions: S.Bjorgan
S.Bjorgan reintroduced three previous resolution topics.

Fee Schedule and Forms Resolution: S.Bjorgan took the Water and Wastewater Subcommittee's inputs and asked that the fee schedule and permit process has a flow chart posted on the website.

D.Cain: The only change I would make is to have it published on paper and website.
S.Bjorgan: This is just to get the fees as they are today out there.
T.Ko: if you're going to remodel a building, will you be going to the SFPUC's website first or another agency?
S.Bjorgan: if this is a commercial environment, they want you to have water on site, you have to submit plans as well as gather permits from DBI, Fire, Water, etc.
D.Cain: It's all done on the 5th floor at DBI.
T.Ko: The only reason I ask is that if we make it available on SFPUC's website, that's great. We need to make sure there are links to that on DBI's website also.
S.Bjorgan: If you're building a building, you typically know where to go.
D.Cain: The contractors know where to go. The general public doesn't know.

D.Cain: I suggest a change at the bottom of the resolution: add that this material "should be published online and in paper form to be available at the DBI along with other similar forms there, and in the same location as those other forms".
W.Farrell: What do people do now?
D.Cain: They muddle through.
W.Farrell: If they were required to prepare a process, how long would it do to do so?
D.Cain: I don't know. It's spread around and they need to centralize it and put together a fee schedule.
W.Farrell: Do you have to put in a wastewater system?
D.Cain: There are multiple permits for multiple uses that the PUC charges for.
S.Bjorgan: I'll remove wastewater because no one is required to do that right now.

Motion to approve Fee Schedule and Forms Resolution with amendments: S.Bjorgan moved; T.Ko seconded. W.Farrell called for a vote. Resolution approved unanimously without opposition.

Possible RECO Resolution: S.Bjorgan reintroduced the background information and the Subcommittee discussed drafting a resolution to discuss at a future meeting.

Possible Bond Resolution: S.Bjorgan provided background information on this draft resolution.

8. Future Agenda Items
    a. Discussion with Power Staff about developing resolutions from Subcommittee – regulatory affairs – What are the avenues of change that this body can take to change how PG&E is managing their streetlights.
    b. Discussion Bond and RECO resolutions
    c. Power Enterprise Focused Budget Presentation

9. Announcements: The next regularly scheduled meeting of the Power Subcommittee will take place on Tuesday, March 5, 2013.

10. Adjournment at 6:58 p.m. W.Farrell moved; T.Ko seconded.

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Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, March 5, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **February 5, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*10 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **Power Enterprise Budget Update**; Todd Rydstrom and Carlos Jacobo, SFPUC Finance; Barbara Hale, AGM Power Enterprise (*15 minute presentation, 15 minute discussion*)
7. Discussion of Future Resolutions (*15 minutes*)
8. Future Agenda Items (*5 minutes*)
9. Announcements/Comments
10. Adjournment

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Citizens' Advisory Committee
Power Subcommittee

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Meeting Minutes

Tuesday, March 5, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call at 5:39 p.m. when Chair Doug Cain called the meeting to order.
   Present: D.Cain; S.Bjorgan; W.Farrell; T.Ko;
   Absent: A.Jamdar (excused);
   Staff Present: F.Lee; B.Hale; C.Sheehan; T.Young
   Public Members Present: D.Pilpel; Cal Broomhead from SF Environment

2. Approval of the **February 5, 2013** meeting minutes
   W.Farrell moved; T.Ko seconded. Minutes approved by acclamation.

3. Public Comment: D.Pilpel is visiting as a member of the public.

4. Report from the Chair: Doug Cain
   We passed a resolution last month at the Full CAC. D.Cain will draft a cover letter to attach.
   S.Bjorgan will conduct more research on the other resolutions that were discussed at last month's Power Subcommittee meeting. He will bring the draft resolutions and background information at a future Power Subcommittee meeting.

5. Staff report: C.Sheehan
   Staff is working on the rate setting process for CleanPowerSF. Staff is scheduled to present to the Commission in March to set rates. They will take action upon it in the near future. Staff is reaching out to community groups and organizations to schedule community meetings. He will share list of meetings that are already scheduled with the Power Subcommittee and is happy to take suggestions on other potential groups to meet with.

   **Switched order of items #6 and #7.

6. Presentation and Discussion: **Power Enterprise Budget Update**; Frances Lee, SFPUC Finance; Barbara Hale, AGM Power Enterprise
   Discussion and Q&A:

   D.Cain: Among those capital projects, does that include the renovation of the building for staff that would house the archives.

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B.Hale: The new admin work determining preliminary issues around permitting and design are funded. They are in the 10 year capital plan. There are just early planning portion that are funded as part of these capital plans.
D.Cain: When are they funding construction?
B.Hale: I am unsure. That is part of the water enterprise.
D.Pilpel: That could be joint, correct?
B.Hale: It is a joint asset.
D.Cain: Capital projects such as?
B.Hale: On slide 9, for the Power portion of the project, we are looking at reductions in our capital plan in $8.3M. Where there is an increase in street lights there's reductions in all other areas, and that is to make sure we have a balance funded capital plan.
W.Farrell: For the prior chart, I didn't see anything for debt service.
B.Hale: On the power side, we have very small debt at this time. Right now we only have state funded loans.
W.Farrell: Do you have any bonded debt?
B.Hale: We don't. We don't have a credit rating, we haven't gone out to the market. Our capital is almost exclusively funded through our net operating revenues.
D.Cain: What else contributes to the revenues?
B.Hale: For the power budget, it is our sales of electricity. We don't have rental income, etc.
D.Cain: Why is GoSolarSF cut?
B.Hale: All of our programs were cut across the board two years ago. They continue to be funded at that level. For GoSolarSF, the legislation that established the program said it was to be funded capitally with $2-5M
S.Bjorgan: When was that legislation?
B.Hale: That was in 2007 – 2008, which established a 10 year program. GoSolarSF was to be funded by the Commission with $2-5M.
S.Bjorgan: Prop B passed for renewables. What happened to that?
B.Hale: That's a revenue bond, so you have to have the revenue stream in order to borrow. Because we don't have a steady revenue stream, it was determined that it was not financially cost efficient to borrow. It didn't make financial sense to take that authority. We don't have that ability yet, but we're getting very close to finance some of these activities. The GoSolarSF system we helped fund are not city assets, so I don't believe we can use that financial capacity for that purpose either. But we could for the municipal local renewables that we fund, because those are systems that we own.
S.Bjorgan: Are the power systems bondable?
B.Hale: Not yet.
S.Bjorgan: Is the SFPUC is bondable?
B.Hale: The separate enterprises have the capability. The enterprises have a fund that they can demonstrate, a credible steady fund that they can borrow from. Historically we have had the inability to enforce rate increase so the financial community isn't comfortable to lend more money.
W.Farrell: You can't take from the water side, correct?
B.Hale: No.
T.Ko: I was at a solar taskforce meeting and there was discussion about GoSolarSF. Is that something as a subcommittee that we should hear?
B.Hale: Once we have established a staff proposal for changes in the program, we would present this to the Commission and also agendize it here. We are looking at how we can take that dedicated fund for GoSolarSF and make sure we are leveraging it in the best way that achieves the programs' goals, such as: more renewables, affordability for low income, and lots of job components. We are looking at how to revise the program to have a broader reach.
T.Ko: What's the timing?
B.Hale: I'm hoping by the end of April or early May, we will have a staff proposal that we can start getting feedback on.
D.Cain: The reason you're essentially reducing the budget is that you're building funds for CleanPowerSF, correct?
B.Hale: This is much more reflective in that historically the agency didn't have the discipline to adopt money to make sure 10 year plans are funded, because we only recently been able to modify the rates to our general fund departments, we were able to catch up on what we were aspiring to spend.

W.Farrell: What is the Transbay?
B.Hale: "Transbay" is the Transbay Terminal that is being rebuilt and it is the electrical infrastructure to serve that terminal, which will increase revenues, because we are going to provide its power.
W.Farrell: Is this part of the central subway?
B.Hale: It is, but the money is only connected to the transit center.
W.Farrell: What do you mean they are not power assets?
B.Hale: They are not power enterprise assets as they are owned by Hetch Hetchy Water & Power (HHWP).
S.Bjorgan: Are there any goals other than the deadline? Metrics?
B.Hale: We've been asked to move the city toward 100% greenhouse-gas free (GHG-free) electric service. What that means is where these detailed points come to play. We're looking to invest our efficiency and solar dollars that can move us there. The Community Choice Aggregation (CCA) comes to play. Ideas like PG&E's green tariff program, we're exploring that as well. We are looking at our continuing activities with PG&E, so that we can continue to provide clean Hetchy power to our municipal users. Those are all components of the electric resource plan and broader vision.
W.Farrell: Are you still under the cost of power?
B.Hale: Yes.
D.Cain: Are you going to seek increased rates from other enterprise departments?
B.Hale: The other enterprise department rates float with PG&E's rate. SFO, as a result of a settlement, has had some of their airlines seeing a discounted rate from the other enterprises' breaks that expire in 2013. Our capital plan assumes that rate increase.
D.Cain: Are there any possibilities of other profitable enterprises like the Port?
B.Hale: Because of our disputes with PG&E that remain unresolved, as the Port goes through their efforts to increase their tenancy, PG&E is fighting with us whether we can continue to be the power provider for the Port. There are redevelopment opportunities underway with the Port, where some of the redevelopment entities have approached us to be the power provider, such as Pier 70.
Public comment:
D.Pilpel: Do we have intervening facilities so that we are qualified as a power provider?
B.Hale: The concept of intervening facilities as part of federal regulation, the regulators have said anyone that can serve power can serve power under an open access régime to transmission. The entities that manage the transmission and distribution have to make their transmission and distribution system available to competitors. One of the figments of that regulation is that you must have facilities that intervene between the transmission and distribution and competing service provider. But this does not apply to things that existed before. For example, there are no intervening facilities at City Hall. For a new facility, we constructed intervening systems at the HP shipyard. If someone goes wrong on our side with our equipment, it doesn't cascade on the PG&E system and vice versa. Once you demonstrate you have intervening system, you can say that you want this open access service and the utility has to provide it for you. That's how we became the service provider for Hunters Point, and why we are investing at the Transbay center. We haven't had to have intervening facilities for the rest of the load we're serving. But as we move forward after the interconnection agreement with PG&E expires, we need to have intervening systems.
S.Bjorgan: Is that contained in the capital cost?
B.Hale: Yes. For other projected load that we committed to serve, it would show up in our 10 year capital plan.
D.Cain: I assume this is also part of the distributed generation.
B.Hale: They are not generating facilities, they are transmitting and metering.
D.Cain: Would storage become part of that?
B.Hale: It could become part of the investing, but is not part of the intervening systems
D.Cain: Is there any federal funding of these facilities?
B.Hale; There isn't at the intervening facilities. There are programs that encourage us to do storage, solar, and other energy efficiency.

W.Farrell: Do you have sufficient generation to meet your needs?
B.Hale; Yes, we occasionally buy some, but because certain times of the year where we are saving the water. We purchase very little when it is a regular water year.
D.Pilpel: I believe there is a complicated relationship that is called "water first", but optimizes the scheduling of water and power. I really want to encourage this committee to support this second rate increase. Right now, the increase is in place and approved. We are in the first year. I'm suggesting a second batch of increases, which has been proposed but not yet approved by the Commission, to encourage and pass a resolution here and bring before the Full CAC. That would support the infrastructure upgrades.
B.Hale: While the General Fund departments are not covering the costs, the enterprise departments are paying more. We have a lot of pressure to continue to fund programs like GoSolarSF, energy efficiency and renewables, because those are good programs. Energy efficiency and renewables are part of our resource base. The primarily funding needs is to keep our generators and facilities operating.
D.Cain: I certainly will endorse a resolution to encourage rates.
T.Ko: Can you send us a link to the Electric Resource Plan?
T.Young: Yes. Link to Electric Resource Plan:
http://www.sfwater.org/index.aspx?page=71
D.Cain: I'd like to find out more information on the green test bed program. What are the metrics? How does it fit into the big picture dollars wise?
T.Ko: How does that measure out?
B.Hale: We've been working with planning folks. The two most active projects are the corridor projects, over on Bryant at 5th and 6th streets. The other active project is the plots of land that became available to the City when the freeway approaches to the old transit center were demolished and some of the other overhead freeway approaches that were demoed around that transit center. There are some disjointed lots there that are being redeveloped.
D.Cain: Is the solon project the other new solar project?
B.Hale: We have continuing funds for municipal renewable program. We are moving forward on the 700 Pennsylvania MUNI project. It is in final design and DPW will be constructing that. We are moving forward on getting a bid from DPW on constructing solar projects at City Hall and Davies Symphony Hall.
D.Cain: Can we have a presentation?
B.Hale: Lori Mitchell can present on solar projects.

7. Discussion of Future Resolutions
S.Bjorgan is conducting additional research to include with draft resolutions. A lot of the background information is from articles, but S.Bjorgan would like invite subject matter experts to provide additional information. For next month's meeting, S.Bjorgan would like to invite Cal Broomhead from SF Environment to do a presentation on City financing of energy efficiency and renewable power initiatives.

8. Future Agenda Items
   - Update on green test bed
   - SFPUC solar projects
   - Rate setting update
   - SF Environment's energy efficiency programs by Cal Broomhead
   - SFPUC's relationship with PG&E and vehicle to make changes how they manage their streetlights

9. Announcements: The next regularly scheduled meeting of the Power Subcommittee will take place on Tuesday, April 2, 2013.

10. Adjournment at 6:52 p.m. W.Farrell moved; T.Ko seconded.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, April 2, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **March 5, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Doug Cain (*5 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: Energy Efficiency Programs; Cal Broomhead, San Francisco Department of the Environment (*15 minute presentation, 15 minute discussion*)
7. Discussion of Future Resolutions (*15 minutes*)
8. Future Agenda Items (*5 minutes*)
9. Announcements/Comments (*5 minutes*)
10. Adjournment

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Meeting Minutes

Tuesday, April 2, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) Ted Ko (B-Small Business)

M = Mayoral appointment, B = Board President appointment

Staff: Charles Sheehan

ORDER OF BUSINESS

1. Call to order and roll call at 6:13 p.m. when Chair Doug Cain called the meeting to order and quorum was met.
   Present: D.Cain; S.Bjorgan; W.Farrell;
   Absent: A.Jamdar (excused); T.Ko (excused);
   Staff Present: C.Sheehan; J.Doyle
   Public Members Present: Cal Broomhead from SF Environment

   ** Meeting agenda changes: The presentation will start after item #1 due to time.

2. Approval of the **March 5, 2013** meeting minutes
   S.Bjogan moved; W.Farrell seconded. Minutes approved by acclamation.

3. Public Comment: none.

4. Report from the Chair: Doug Cain
   Ted Ko is taking over as chair of the Power Subcommittee and Terrence Jones has resigned as the Chair of the Full CAC.

5. Staff report: none

6. Presentation and Discussion: **Energy Efficiency Programs**; Cal Broomhead, San Francisco Department of the Environment
   C.Broomhead started presentation before quorum began. When quorum was achieved, he was on slide 10 of his presentation.

   C.Broomhead noted that the San Francisco Department of the Environment/SF Environment (SFE) does neighborhood events and in-home meetings. They have found that word of mouth is very effective.
   S.Bjorgan: How does SFE relate to the SFPUC?
   C.Broomhead: SFE receives $600,000 from the SFPUC. For other initiatives that they can't use PG&E money for, SFE uses SFPUC money. Specifically, SFE uses SFPUC money for energy data collection, making comments in CPUC proceedings, building energy benchmarking, etc.
   D.Cain: Who does the Climate Action Plan?
   C.Broomhead: SFE does the Climate Action Plan.
   S.Bjorgan: Please tell us about the 2002 plan.

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C.Broomhead provided context and referenced the 2002 Electricity Resource Plan as well.
J.Doyle: I have a question on the Home Energy Profile. How much are rebates?
C.Broomhead: As part of the October surprise, residents could have gotten up to $6,500. Now it is $2,000 less and the rebate gets spread across whatever the scope of work is, but it's based on percentage of modeled energy savings. The Home Energy Profile includes a whole host of options, but not solar.
S.Bjorgan: Are there opportunities to help SFE? The SFPUC doesn't have huge incentives to do energy efficiency for municipal buildings.
C.Broomhead: I am working with the SFPUC on a number of fronts/items.
C.Broomhead mentioned a Marin program that pays back energy efficiency improvements on people's electricity bills.
W.Farrell asked about solar and what happens when it rains and backup.
John Doyle, in the audience, explained how the grid works.

7. Discussion of Future Resolutions: skipped due to lack of time. This item will be included in the Power Subcommittee meeting in May.

8. Future Agenda Items: skipped due to lack of time. Ted Ko will work with Teresa Young on developing May's agenda.

9. Announcements: The next regularly scheduled meeting of the Power Subcommittee will take place on Tuesday, May 7, 2013.

10. Adjournment at 6:45 p.m. D.Cain moved; S.Bjorgan seconded.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, May 7, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) **Ted Ko (B-Small Business)**

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **April 2, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Ted Ko (*5 minutes*)
5. Staff report (*5 minutes*)
6. Introduction: Kim Malcolm, Director, CleanPowerSF (*10 minute introduction*)
7. Presentation and Discussion: **Update on California Legislation Regarding Power Initiatives**, Meg Meal, Regulatory & Legislative Affairs Manager, Power Enterprise (*15 minute presentation, 10 minute discussion*)
8. Discussion of Future Resolutions (*10 minutes*)
9. Future Agenda Items (*5 minutes*)
10. Announcements/Comments (*5 minutes*)
11. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING MINUTES - FINAL

Tuesday, May 7, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) **Ted Ko (B-Small Business)**

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. The meeting was called to order at 5:37 p.m. by Chair Ted Ko when quorum was met.
   Present: T.Ko; W.Farrell; S.Bjorgan; A.Jamdar; D.Cain
   Staff Present: T.Young; M.Meal; A.Patane; S.Chen-Hagen; A.Frank
   Public Members Present: Anne

2. Approval of the **April 2, 2013** meeting minutes
   W.Farrell moved; S.Bjorgan seconded. T.Young corrected a typo on item #1.
   Minutes approved by acclamation.

3. Public Comment: none.

4. Report from the Chair: Ted Ko
   T.Ko sent a Google spreadsheet to Subcommittee members to help track potential agenda items and plan ahead for future meetings taking place over the next few months. This could also track potential resolutions. The Subcommittee can also invite community and non-profit groups to present on what they care about power-related items.
   S.Bjorgan suggested that T.Ko consider presenting on what he does in regards to renewable energy and legislation.

5. Staff report: Angela Patane, GoSolarSF Program Manager
   A.Patane provided updates on the GoSolarSF program changes. She will return to the Full CAC on May 21, 2013 to do a full presentation.
   A handout was distributed and included recommendations from an analysis on the GoSolarSF program with resulting recommendations on program changes.
   A.Patane: The way the program works is that the ordinance allows the Program Administrator to lower incentives, which we have done a few times over the last few years. We will be entering the fifth year of a ten year program. This year was a little bit more extensive. We are requesting changes that require an ordinance change. The main change is that we would like to reorganize the residential incentive, which now is a tiered structure that is confusing with different steps. We want across the board to have a kilowatt incentive and be more similar to our other incentives. Basically it is program improvements that would provide more incentives to more people over time.
   A.Jamdar: What do you mean by reducing incentives?

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A.Patane: It means reducing the incentive level. The handout was distributed to the solar community. We are having a solar community meeting next week to present this information and gather feedback. The meeting will be on Monday, May 13 from 3:00pm - 4:30pm at 525 Golden Gate 3rd floor Tuolumne Conference Room. People who can't join in-person can tune into the webcast.
T.Ko: I was at the GoSolarSF task force meeting a month and a half ago. A major problem we heard from the installers was that due to the start-stop nature of the budget, they couldn't actually guarantee that they'd get the incentive anymore. Installers are selling the system to their customers at X cost with X incentive. However, the chances of them getting the incentives have dropped so low that they can't promise that anymore.
A.Patane: This really solves that because it is a systematic step that's predictable. It steps down at the fiscal year. If someone is selling a project and they don't get funded for this fiscal year, they could forecast what the incentive will be the next year. We're doing away with the quarterly budget. Every year our challenge is stretching out the funding through the whole year. This year, we're looking at allocating the budget quarterly. What happened was that we ran out of funding on the first day. It didn't work out this year, which is why we're proposing changes.

6. Introduction: Kim Malcolm, Director, CleanPowerSF
Skipped item #6. K.Malcolm could not make it tonight and she will come to a subsequent meeting.

7. Presentation and Discussion: **Update on California Legislation Regarding Power Initiatives**, Meg Meal, Regulatory & Legislative Affairs Manager, Power Enterprise
Discussion and Q&A
W.Farrell: What does "GHG" mean?
M.Meal: GHG means greenhouse gas.
W.Farrell: What is this renewable portfolio standard (RPS)?
M.Meal: RPS is a state law that requires all electric utilities in California to provide a certain percentage of their supplies from renewable resources. The current standard is 20% (started 2011) and ramps up to 33% by 2030. Our requirement isn't a specific percentage, but we need to get our supplies from Hetch Hetchy or renewables.
T.Ko: Which formulas would be most advantageous?
S.Chung-Hagen: Since our SF schools don't have a much public school children, number of pupils will not be as advantageous for us. If you start looking at economic levels, Title 1 and free/reduced lunch, those might be some things that are more advantageous to us because almost 60% of kids are on the free/reduced lunch level. We would like suggestions that the Subcommittee would have on different formulas that may be useful. Right now, the Daly Own bill may has the most legs. We're looking at whether a hybrid model of a formula would be more advantageous to us. Other cities around the Bay Area may have a similar situation as San Francisco.
A.Jamdar: As opposed to $67 per pupil allocation that the Governor is proposing, you're pushing back against that?
S.Chung-Hagen: Right. Initially one of the things we want to see the overall population base is much better for us, because a third of our kids are in public schools and the other two thirds are in private schools. That's why it's not as advantageous for us to have per-pupil dollars.
T.Ko: I was at the Senate hearing last week where this topic was being discussed. You're not necessarily going to target the schools that need it, but you're giving everyone just enough money to not do something. The right projects won't have enough money to do something meaningful.
M.Meal: On the Prop 39 funds, we are uniquely positioned because we're both the electricity provider to the schools and the schools themselves. There's a natural partnership that not everyone else has.
D.Cain: I assume there is a list of schools prioritized to receive the funds?
M.Meal: I don't think that prioritization has been done for this explicitly for this within San Francisco. We do work with San Francisco Unified School District (SFUSD) on energy efficiency and renewables development. We work with SFUSD on opportunities for energy efficiency and where the school district

wants to direct money for educational programs. We work with them to figure out the best locations and there are a lot of factors that go into it.
D.Cain: Does Prop 39 funds go into facility improvements?
M.Meal: It would go into facility improvements.
D.Cain: So you're saying that there isn't a priority list for schools that would receive the funds?
M.Meal: Not as far as I know under these bills.
T.Ko: The state-wide formula has not been determined, but we could have our own prioritized list of schools in San Francisco that need the money the most.
S.Chung-Hagen: We probably have a process in place internally, but I'm not sure.
M.Meal: I don't have the details and I'll have to get back to you. We do work with SFUSD regularly. One of the recent solar installations was at Alvarado Elementary School. I don't know why that particular school was selected for that project.
S.Bjorgan: I think I do. I believe that the rooftop was more viable to handle a solar installation.
T.Ko: Most of it is energy efficiency.
S.Bjorgan: How much can you do to a building's shell without taking it down and starting over? I think we should identify the needs first and then see what we should go after. If there's an out, we could also then use the overflow on public buildings.
A.Jamdar: I know community colleges are on the list and they have such a big need. Overall on the state-level in terms of the formula, it would make sense to prioritize inner-city school districts in need of funding.
T.Ko: Some of the districts with the most need have had the least investment.
D.Cain: We also have our own city politics in play here. There is lot of school buildings that the Mayor wants the district to sell. Is this going to be thrown into the mix of doing energy efficiency?
T.Ko: Maybe it's worth asking the staff about existing formulas to internally prioritize the schools. The Subcommittee can look at that and provide ideas on how it should be done. We could also encourage the Commission to go for a formula that would go with that prioritization.
S.Bjorgan: Maybe the energy efficiency improvements don't have to be tied to a physical plant, because we can then implement renewables using community solar. Also a question is the housing authority considered a public building under this?
A.Jamdar: Not under this.
D.Cain: I think they actually are private corporations owned by a public entity.
A.Jamdar: They're also are regulated a lot.
T.Ko: In terms of community colleges – if we think internally as a city that we do want to make sure someone gets to the community colleges as much as Kindergarten through grade 12, then we should advocate for the bills to include that. If we decide that we want to get money to community colleges, then we would want to advocate a legislature that includes that.
A.Jamdar: Didn't a lot of the SFUSD buildings get retrofitted?
M.Meal: I don't know. I think there's a lot of potential, but I'm not the best person to speak on that.
W.Farrell: What does "RPS" mean?
M.Meal: RPS is the acronym for renewable portfolio standard.
T.Ko: Are there article revisions in RPS for electric vehicles?
M.Meal: There are for electric vehicles. There are no provisions to serve light rails or fixed guide ways, which would cover cable cars, overhead buses, and light rail system. In the original regulations, light rail fixed guide way was excluded. We and others advocated for light rails to be included. Now CARB is undertaking a rulemaking to set up the rules and formulas for providing credits to fleets and rail operators that are using electricity as a transportation fuel, so that they can compete on the same basis as other transportation fuels. We're working with SFMTA on that. When you're using electricity for transportation, you need to take a look what it will be displacing.
D.Cain: Meaning displacing people out of cars?
M.Meal: Correct.

W.Farrell: How big of staff do you have?
M.Meal: We have about five people. We share staff time across other groups. It's not like we have people working 100% time on regulatory/legislation topics.
W.Farrell: Do you have anyone in Sacramento?
M.Meal: External Affairs works with lobbyists in Sacramento.
S.Chung-Hagen: The External Affairs team that's been working on legislation has been down two staff members. I just came on board and another staff member will be joining us next week.
T.Ko: The PG&E green option just had a settlement two weeks ago, correct?
M.Meal: Yes.
T.Ko: Is it a serious threat to CleanPowerSF?
M.Meal: We have been an active party in that proceeding where we will file comments on the green option proposal. PG&E is proposing to offer a voluntary program for customers that choose to sign up where PG&E would dedicate a certain amount of renewable supplies to those customers. PG&E would essentially purchase renewable energy credits (RECs) to match their own supplies. They changed their program to have power explicitly from identifiable renewable facilities within PG&E's service territory and provide those supplies to customers that specifically sign up for that program. In concept, we're very supportive of it. It's a good way to directly promote additional renewables over what PG&E's already required to do. The problem is that the way it's structured, it could be a competitive threat to Community Choice Aggregation programs (CCA). This is because PG&E is starting off by using its existing renewables and shifting them. PG&E could allocate some more renewables to some customers and less to most other customers and they could recover that cost. Unless you get the rate making right and allocate the costs appropriate, there's a potential for them to undercut our price.
T.Ko: In the CleanPowerSF update that Barbara Hale presented previously, it included estimates of uptake based on whether PG&E had its own option and if people would opt out. This is essentially that last option of the survey. If we launch CleanPowerSF and PG&E launches another thing, there was a drop off.
D.Cain: What I'm hearing that other organizations are settling?
T.Ko; People who didn't settle will do their own protests.
M.Meal: We will raise the concerns about cost-shifting and competitive program.

Public comment:
D.Pilpel: On slide 6, it is not just SFMTA but also SF Environment is very concerned about cap and trade accounting. I hope we're coordinating with the other agencies.
M.Meal: Good point. I will check in with them.
T.Ko: Is there further information about this topic that we want Power to come back about?
A.Jamdar: I'd like a follow up on Prop 39 and how it's getting formulated.
T.Ko: Another question to consider is if we want to have a position on the future of RPS. Does the SFPUC have a position on this as well?

8. Discussion of Future Resolutions
T.Ko: S.Bjorgan – can you bring back the resolutions you were working on for the next meeting?
S.Bjorgan: Yes.
T.Ko: M.Meal mentioned about PG&E's general rate case (GRC) about streetlights. That could be a potential future resolution about how we should be intervening with the GRC on streetlights. It would be good to get a follow up on that.
A.Jamdar: AB543 workforce standards around energy efficiency.

9. Future Agenda Items
T.Ko will mail out future agenda items.
    - Emergency preparedness for power and system resilience
    - Hunters Point Phase 1 update
    - Community benefits as it relates to power

Public comment: none.

10. Announcements/Comments – The next regularly scheduled meeting will take place on Tuesday, June 4, 2013

11. Adjournment at 6:48 p.m. D.Cain moved; T.Ko seconded.

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Power Subcommittee

MEETING AGENDA

Tuesday, June 4, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) **Ted Ko (B-Small Business)**

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Staff: Teresa Young

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **May 7, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Ted Ko (*5 minutes*)
5. Staff report (*5 minutes*)
6. Staff Update: Planned school prioritization methodology for Prop 39 funds, Jonathan Cherry, SFPUC Power Enterprise, and Sheila Chung Hagen, SFPUC Legislative Affairs (*5 minutes*)
7. Discussion: Financing of energy efficiency and generation projects (*25 minute discussion*)
8. Discussion of Future Resolutions (*20 minutes*)
9. Future Agenda Items (*5 minutes*)

   Streetlight Program Update
10. Announcements/Comments (*5 minutes*)
11. Adjournment

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MEETING MINUTES - DRAFT

Tuesday, June 4, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain (D3) Walt Farrell (D7) Avni Jamdar (M-Env. Group)
Stephen Bjorgan (M-Eng./Financial) **Ted Ko (B-Small Business)**

M = Mayoral appointment, B = Board President appointment

Staff: Teresa Young

ORDER OF BUSINESS

1. The meeting was called to order at 5:36 p.m. by Chair Ted Ko when quorum was met.
   Present: T.Ko; W.Farrell; S.Bjorgan; D.Cain
   Absent: A.Jamdar
   Staff Present: J.Doyle; J.Cherry; S.Chung Hagan; T.Young
   Public Members Present: Patrick Donaldson

2. Approval of the **May 7, 2013** meeting minutes
   T.Ko moved; W.Farrell seconded. Minutes approved by acclamation. T.Young corrected the May 7, 2013 minutes.

3. Public Comment: none.

4. Report from the Chair: Ted Ko
   S.Bjorgan will move to the Water Subcommittee. This will be S.Bjorgan's last meeting at the Power Subcommittee, but he will still visit from time to time.

5. Staff report: T.Young encouraged the Subcommittee to help recruit people who would be interested in joining the CAC. Current vacant seats include Districts 2, 5, 10, and Large Water User. T.Young invited Power Subcommittee members to an upcoming community meeting for the Wiggle Neighborhood Green Corridor project on Tuesday, June 11, 2013.

6. Staff Update: Planned school prioritization methodology for Prop 39 funds, Jonathan Cherry, SFPUC Power Enterprise, and Sheila Chung Hagen, SFPUC Legislative Affairs
   S.Chung Hagan: J.Cherry will give an overview of SFPUC's longer-term vision working with the school district and I will provide an update on Prop 39.
   J.Cherry: Historically the school district (SFUSD) has had their own energy manager and they do their own communications between the district and individual schools in terms of each facility's energy use and tracking that month to month. We have not played that function like we do with other City departments. SFUSD has also historically funded their energy efficiency improvements and lighting replacements as part of their general repair cycle. In the last two years, SFPUC has been building a closer relationship with SFUSD to help them figure out how to take advantage of the energy efficiency services that we offer. Right now, we don't have anything final yet in regards to Prop 39,

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but we're trying to do the same thing for the school district as we did for City buildings last year in terms of benchmarking. We haven't been able to do that before, because unlike other City departments, the schools get their natural gas through SPURR. SPURR is like a wholesale type agreement where schools can purchase natural gas in bulk at a cheaper rate than what they would get from PG&E. The schools still get their gas through PG&E, but it's similar to CCA but more like direct access. They use PG&E's distribution system but choose a different provider of natural gas. Effectively what it means for the SFPUC with other City departments is that we play the role of a billing intermediary where we see all of their natural gas bills. We can have a full picture on how much gas is used each site. Historically with the schools, we haven't seen that and it has come through a different channel. We've done energy audits with SFUSD at target sites. We've discussed with them about sharing their information for an energy benchmarking report for the next few months. We're still working on that, so we don't have a prioritization quite yet. An extra incentive for doing this is in preparation for Prop 39 is helping the schools position themselves to take advantage of those funds when the mechanism works out.
S.Chung Hagan: On Prop 39 funds, right now it is a moving target on state legislature. We're not clear on which vehicle is going to be used to determine how those funds will be distributed. The two basic camps of the types of distribution that may take place are either a formula-based model or competitive grants model. In the line with prioritization, we are recommending in all of our advocacy work to ensure that the leg is looking a portfolio of schools as opposed to looking at individual schools. By doing a full portfolio, it allows us to take advantage of priority setting and leverage different programs like energy efficiency curriculum that we can deploy to multiple schools.
T.Ko: Has the portfolio approach shown up in any of the bills?
J.Cherry: They are not yet that specific as to exactly how a grants program would work. If it's a more formula approach, it would basically be a portfolio and you would get a chunk of money to spend on how the district wants. If it's more of a competitive grant approach, you would apply for a grant.
S.Bjorgan: They would be smart to mimic a RRA program, which is a competitive grant. Otherwise it just won't work.
T.Ko: A formula-based version can be school by school as well.
S.Chung Hagan: There are a variety of formulas out there right now. It's everything from average daily attendance to average daily attendance with Title 1, etc. We're trying to make sure that the way the formula is crafted considers a portfolio model. It is also looking at energy efficiency not just at schools that are the biggest users but also have the highest capacity for us to bring in energy conservation.
S.Bjorgan: Why would you do that?
J.Cherry: I think an example would be if School A in San Francisco uses a certain amount of energy and School B in Bakersfield that uses more energy because of air conditioning. You don't want to just look at the total energy use, but it's important to look at specific climate zone, building type, and what's achievable. The formula shouldn't be set up on ranked schools based on average energy use. That doesn't necessarily say what's achievable. There's more nuance to that.
S.Bjorgan: It is carbon protection, so wherever the most impact can be made per dollar is where the money should be.
T.Ko: Part of the formula is not just carbon, but targeting schools that most need it in terms of their budgets and students in order to not just improve energy and also education. The original focus of the bill was on energy and education. This was the originator's way of getting both aspects in one proposition, which is why it was targeted at schools.
J.Cherry: Our point is that even with schools have a lower absolute use, there can still be some cost effective projects at those schools in terms of energy savings per dollar.
S.Bjorgan: I'm in favor of the base case, which is teaching about energy efficiency and renewables. That should definitely be the first priority regardless of need.
T.Ko: In the portfolio version, it allows you to have your own internal prioritization independent from what happens in Sacramento. In district

prioritization, the methodology hasn't been developed yet and you're still working on it.
S.Bjorgan: Any feel for amount of square feet?
J.Cherry: I don't know it off the top of my head, but I can get back to you with that. It's somewhere between 5 to 10 million square feet.
D.Cain: Does that include active schools?
J.Cherry: That was just the ballpark and I can get those numbers to you.
S.Bjorgan: And also the last major rehab. What year was it built? That's a huge difference.
J.Cherry: Another part I should mentioned that the school district had a $500M bond measure in 2011 that was approved for school upgrades. As part of that, the school district hasn't decided completely which schools would be part of the later phases of that. I believe they identified loosely the first set of priority schools for those repairs. In terms of phasing energy efficiency program, it will have to build on what they have determined on their wider bond program and leveraging those projects in the most effective way. Considering the energy efficiency alone and what will be a good exercise, they aren't there yet. They have $5M set aside for sustainability projects.
T.Ko: Doug, you mentioned that requested that the team came back. Are you satisfied?
D.Cain: I feel updated.
S.Bjorgan: What's the next milestone? When will you know more about the benchmark?
J.Cherry: We'll have that report out hopefully this summer. It'll be sooner than what we did last year.
D.Cain: Directing question to S.Chung Hagen – I know we're fighting for every dollar we can get. I was thinking that $500M bond issuance was targeted for seismic upgrades. The school district is having conflict with Mayor about holding on a lot of property that they could sell to fund programs. Is this the really best use of our efforts to consider? The school district isn't really well-managed and I am a bit concerned that they don't have a similar approach to advocacy like the SFPUC. So I know your team does that, but I'm wondering if the other side is doing their job.
S.Bjorgan: Can we invite the school district's Real Estate Services here?
T.Ko: We can consider that for the future.

7. Discussion: Financing of energy efficiency and energy generation projects
J.Doyle: First let's set the stage and look back on how we've funded energy efficiency projects to date and see where we are now and where we might go in the future. Over the past 10 years since Willie Brown was Mayor, he started the Mayor's Energy Conservation Fund, which is now the Sustainable Energy Account. Typically we were actually well-funded for municipal projects. For most of that period, we were funded $6M a year for energy efficiency and renewables/solar photo voltaic (PV) projects. The funding comes from Hetch Hetchy, so it's the revenues from Hetch Hetchy from the sale of power to municipal departments and also some sale on the open market to Raker Act entities. The funding comes from Hetch Hetchy. About two years ago there was a close look by senior management of the prioritization about how to do renewable energy efficiency projects, and the decision was to be prioritizing upcountry projects. The Hetch Hetchy infrastructure is old and a lot of capital improvements need to be done over the next 10 years to keep it in a good state. That's where most of the funding went to. Energy efficiency and renewable projects were reduced, but still had to cover the cost of the projects and staff. For the Trans Bay Cable that runs from Pittsburg to San Francisco, we get $2M a year from the cable company. That money can go into energy efficiency projects and renewable projects.
T.Ko: Is it earmarked for that?
J.Doyle: Predominantly it can be used for other purposes as well, but essentially it is directed to energy efficiency projects, schools, human services facilities, community centers that would qualify.
T.Ko: Is that $2M on top of the $1.5M?
J.Doyle: Yes, that's on top of that. In response over the last two years, we've also reached out to other departments and offered to do energy efficiency projects for them if they fund us. The model before that was typically General

Fund departments. We've been getting some funding from other departments by doing projects from them, such as the Human Services Agency. In the past, it has been pay as you go and that's how it was expensed. Leaving the Community Choice Aggregation (CCA) program out of the picture for the time being, what happens to the SFPUC financially is that the more you reduce the generation, the more our revenues are also reduced. We do a huge amount of energy efficiency since the load is not growing. The more energy efficiency we do, the more revenues drop down.
W.Farrell: Can't you sell the excess power?
J.Doyle: If we do energy efficiency, we will have more excess power to sell. On the open market sales, we can only sell to Raker-compliant entities. By federal law, we cannot sell to PG&E or Edison. We can sell to municipal utilities such as Sacramento, Palo Alto, Modesto Irrigation District, Turlock, etc. For the time we have power to sell during the spring runoff, the prices are low because there's a lot of hydropower on the market at the same time. Prices typically are in the $0.03 - $0.04 a kilowatt hour range, which is pretty low. If you did energy efficiency projects, it would cost you $0.06, $0.07, or $0.08 a kilowatt hour to do energy efficiency project. You can only sell the displaced power for $0.03 or $0.04, which causes you to lose money. The bottom line is that people think it's good to do renewable and energy efficiency projects. We continue to do solar projects and are not planning on a massive project that would disrupt our financial structure. In terms of the bonding, there have been a number of concepts proposed over the years. There are companies that will come in and they will finance energy efficiency improvements in return for the savings of energy efficiency, which is one model. We have not actually contemplated a bond financing to do energy efficiency projects because the revenue issue, and secondly the money needs to be paid back, so we'll need to choose projects that could pay off. If you bring CCA back into the picture, it changes and you might want to do as much energy efficiency as you can if you're going to sell Hetch Hetchy power to CCA. The Raker Act says we cannot sell the power to an entity that would resell it for profit. In theory, we could sell Hetch Hetchy power to individual home owners and businesses in San Francisco. CCA is a mechanism, but you could only get Hetch Hetchy power during certain months each year and procure power from somewhere else.
T.Ko: Going back to S.Bjorgan's original idea around bond funding for energy efficiency projects targeting at City bonds, and not SFPUC bonds. If it's for energy efficiency projects on municipal buildings like schools, would we still have this revenue problem? The City saves money individually each department can better themselves by doing more energy efficiency projects. Then we have this one revenue problem.
J.Doyle: The City would save money.
S.Bjorgan: City departments could do a better job if their operating expenses are lower. I think that trumps the need for the SFPUC to maintain on their current business model.
T.Ko: Since the SFPUC's budget is district and separate from the rest of the City, we could as citizens of the City promote energy efficiency for City buildings. As the SFPUC CAC, I'm not sure it is our job to do a resolution here.
S.Bjorgan: On the wastewater side, there is an organized effort to reduce what goes into the sewers, but there's no such thing on the power side. Why is that?
J.Doyle: Going back to the school district example, you already have a precedent there with the $5M bond put in place. $30-$40M of that will go into energy efficiency and sustainability projects. Some of that bond is set aside for sustainability projects. That's one department that's already doing that. Some of them don't need bonds, like the airport. I think SFO has a pretty intensive energy efficiency program and they have their own money. Other departments, museums, hospital, libraries, probably would if they're going to do it on their own. They'd have to be really careful that it pencils out. If they really do move forward, they'd need to do a careful audit and what those energy efficiency improvements are.
T.Ko: You could do this. If the SFPUC's budget is affected, then they'll have to raise rates. Then you have this issue about netting your benefits. It may make sense for you as the school district, but that could mean pushing up rates for other departments. For the City itself, it may not be better off.

D.Cain: Is this a little premature to discuss? Wouldn't the presence of CCA change the game?
J.Doyle: There are two scenarios. If you don't have a CCA, would other departments do this? They would save them money and we will lose money. If there is a CCA, then we all make money.
T.Ko: In terms of a resolution, do we want to design or craft our ideas and resolution assuming that the CCA model benefits this way?
J.Doyle: We don't know what the framework of the CCA will be. Hetch Hetchy power can be made for CCA, but who knows, maybe that will change a year from now.
D.Cain: I think CCA is the key element here, so we should wait for that.
S.Bjorgan: I thought we were locked in a contract with Shell for a few years.
T.Ko: The contract is with Shell, but you can already right away start replacing it right away, correct?
S.Bjorgan: I think we should check that. Is it a guaranteed limit of purchase?
D.Cain: There is a guaranteed minimum purchase, but still Hetch Hetchy power can be applied. It has to be enough demand.
S.Bjorgan: The climate action plan introduced in 2004. For 10 years later there's not much movement on it. My point is that you have to introduce ideas for them to catch. Things take a long time, especially in the public domain. I'm hoping we can start the wheels turning in other people's heads.
D.Cain: It's a very current issue. We have a full time team here and I still think CCA has so much impact on this discussion that we need to see what happens with hat program first.
S.Bjorgan: I think it's public opinion influence whether it succeeds or not.
T.Ko: For the purposes of this discussion, it feels like we've come to an interesting spot understanding the dynamics. We wouldn't necessarily come up with a new business model for the SFPUC, but it's worth understanding what their current business model is and knowing what kinds of things we'll propose. It would also be good to hone in on what we can do as a CAC as oppose to what to bring up with the Board of Supervisors (BOS).
W.Farrell: Does the City get any benefit from the airport?
J.Doyle: The airport is our biggest customer. We get two streams of revenue – municipal revenue from SFO and the tenants of the airport. SFO is an enterprise agency.
W.Farrell: How about for the City?
J.Doyle: It is equivalent to enterprise rates. The airport does not need subsidies.
T.Ko: We didn't get into the renewable generation projects. Is that different if you put up generation projects, you would have the same issues because you're replacing Hetch Hetchy power?
J.Doyle: The paradigm we've had with municipal facilities is that they pay us for solar power. If we put solar system on the roof, we immediately get the solar power and they pay us the solar power as the same rate that they pay for their normal power. So we get the same amount of money that we normally get, but it is out of our own pocket for the capital cost of the solar system.
S.Bjorgan: I've been learning more about the Raker Act. Has anyone ever discussed about modifying it?
J.Doyle: Lawyers have discussed it in the past, but the question that comes up is modifying it to do what?
T.Ko: To sell power.
J.Doyle: That is not going anywhere as it's very specific in the Raker Act. The issue on the table now is we'd like to sell power to Cal ISO. There are two schools of thought. On one end, you sell it to Cal ISO and to PG&E. The other school of thought is like a black box. You aren't selling it to PG&E but to different entities and you won't really know who you're selling to. You're not really selling to PG&E. We'd like to come out to sell to Cal ISO. Right now we can bank power with PG&E. During the runoff period we can put that power in the bank and sell that power later on when the prices are higher. In 2015 the banking will go away, which means we'll have to dump our power on the market. It would be nice to sell to Cal ISO and get a better price instead.
W.Farrell: I remember when PG&E used to assign customers to SFPUC.
J.Doyle: Now they're trying to hold onto customers. The whole business with PG&E is in discussion.

Public comment: none.

8. Discussion of Future Resolutions
   T.Ko: The CAC can develop resolutions to recommend the Commission to speak to the BOS. If it is something the Commission has no purview over to bring before the BOS, then it wouldn't make sense to develop a resolution on those items.
   T.Ko: The Power CAC's proposed RECO draft resolution may make sense to revisit when CCA comes online. It would actually affect SFPUC's customers at that point. There is an appropriate path when the time comes. The question is before the CCA is launched, do we want the Commission to make that statement before the Commission or is it too early?
   T.Young: Perhaps the Power CAC can bring it up before Kim Malcolm, Director of CCA.
   S.Bjorgan: We may not have thousands of customers in CCA if we don't do anything about efficiency because the rates are a premium tier. If you aren't paying the premium through savings, then how?
   T.Ko: Some people are willing to pay more, but we don't know if it'll be a thousand or three thousand.
   T.Ko: Regarding a proposed draft resolution about the water bill, we should bring this up to either the Water or Wastewater Subcommittees.
   T.Ko: Per the discussion about bond issuance and financing for energy efficiency projects with J.Doyle this evening, we can revisit this topic when we know more about CCA as it progresses.
   Public comment: none.

9. Future Agenda Items
   - Emergency Preparedness and System Resiliency as it relates to the Power Enterprise
   - Streetlight Program Update

10. Announcements/Comments: none.

11. Adjournment at 6:59 p.m. T.Ko moved; D.Cain seconded.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, July 2, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7)
Ted Ko (B-Small Business) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff Liaisons: Teresa Young and Debonne Nelson

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **June 4, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Ted Ko (*5 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **Emergency Management and Preparedness for the Power Enterprise**, Mary Ellen Carroll, SFPUC Emergency Planning Director (*15 minute presentation, 10 minute discussion*)
7. Discussion of Future Resolutions (*20 minutes*)
8. Future Agenda Items (*5 minutes*)
9. Announcements/Comments (*5 minutes*)
10. Adjournment

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Disability Access
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Notice of Cancellation
Tuesday, August 6, 2013
Citizens' Advisory Committee Meeting

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee, scheduled for Tuesday, August 6, 2013 at 5:30 p.m. at 525 Golden Gate, 2nd Floor Conference Room, has been cancelled. We apologize for any inconvenience this may cause. The CAC will reconvene in September 2013.

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Thank you,

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, October 1, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Doug Cain – Chair (D3) Walt Farrell (D7)
Ted Ko (B-Small Business) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff Liaisons: Amy Sinclair and Ryan Iwata

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ORDER OF BUSINESS

1. Call to order and roll call
2. Approval of the **July 2, 2013** meeting minutes (*5 minutes*)
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Report from the Chair: Ted Ko (*5 minutes*)
5. Staff report (*5 minutes*)
6. Presentation and Discussion: **Clean Power SF Update**, Kim Malcolm, Director, Clean Power SF (*10 minute presentation, 20 minute discussion*)
7. Discussion of Future Resolutions (*20 minutes*)
8. Future Agenda Items (*5 minutes*)
9. Announcements/Comments (*5 minutes*)
10. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, November 5, 2013
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

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Members

Wendy Aragon (D1) — Walt Farrell (D7)
Ted Ko (B-Small Business) — Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff Liaisons: Jessica Buendia and Ryan Iwata

ORDER OF BUSINESS

1. Call to order and roll call
2. Presentation and Discussion: **Street Light Program Update**, Barbara Hale, Assistant General Manager, Power Enterprise (*10 minute presentation, 20 minute discussion*).

   Presentation will cover:
   - Operations and Maintenance Funding and Priorities
   - Capital Improvement Plans
3. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
4. Staff report (*5 minutes*)
5. Report from the Chair: Ted Ko (*5 minutes*)
6. Approval of the **July 2, 2013** meeting minutes (*5 minutes*)
7. Future Agenda Items (*5 minutes*)
8. Discussion of Future Resolutions (*20 minutes*)
9. Announcements/Comments (*5 minutes*)
10. Adjournment

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Notice of Cancellation
Tuesday, December 3, 2013
Citizens' Advisory Committee Meeting
Power Subcommittee

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee Power Subcommittee, scheduled for Tuesday, December 3, 2013 at 5:30 p.m. at 525 Golden Gate, 2nd Floor O'Shaughnessy Conference Room is cancelled.

Thank you and Happy Holidays,
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January 6, 2014

Reschedule Notice
Thursday, January 23, 2014
Citizens' Advisory Committee Meeting
Power Subcommittee

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee Power Subcommittee has been rescheduled for Thursday, January 23, 2014 at 5:30 p.m. The meeting will be at 525 Golden Gate, 2nd Floor O'Shaughnessy Conference Room.

Thank you for your cooperation,
SFPUC Communications

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Thursday, January 23, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Wendy Aragon (D1) Walt Farrell (D7) Mark Connors (D6)
Ted Ko (B-Small Business) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President appointment

Staff Liaisons: Ryan Iwata and Jessica Buendia

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ORDER OF BUSINESS

1. Call to order and roll call
2. Staff report (*5 minutes*)
3. Working Session: **Clean Power SF Resolution**, All Committee Members *(60 minutes)*
4. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
5. Report from the Chair: Ted Ko (*5 minutes*)
6. Future Agenda Items (*5 minutes*)
7. Discussion of Future Resolutions (*10 minutes*)
8. Announcements/Comments (*5 minutes*)
9. Adjournment

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Disability Access
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Notice of Cancellation
Tuesday, February 4, 2014

Citizens' Advisory Committee Meeting
Power Subcommittee

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Meeting is Cancelled

The regular meeting of the San Francisco Public Utilities Commission Citizens' Advisory Committee Power Subcommittee, scheduled for Tuesday, February 4, 2014 at 5:30 p.m. has been cancelled.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, March 4, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Wendy Aragon (D1) Walt Farrell (D7) Mark Connors (D6)
Ted Ko (B-Small Business) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Jessica Buendia

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ORDER OF BUSINESS

1. Call to order and roll call
2. Staff report (*5 minutes*)
3. Presentation: **Power Enterprise 101**, Charles Sheehan, Communications Manager *(15 minute presentation, 15 minute discussion)*
4. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
5. Report from the Chair: Ted Ko (*5 minutes*)
6. Future Agenda Items (*5 minutes*)
7. Discussion of Future Resolutions (*10 minutes*)
   a. Clean Power SF (Members Ko and Aragon)
8. Announcements/Comments (*5 minutes*)
9. Adjournment

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING MINUTES (DRAFT)

Tuesday, March 4, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Wendy Aragon (D1) Walt Farrell (D7) Mark Connors (D6)
Ted Ko (B-Small Business) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Jessica Buendia

ORDER OF BUSINESS

1. Call to order and roll call: Meeting called to order: 5:35pm

Members present: (4 members present, quorum confirmed) W. Aragon (D1), W. Farrell (D7), A. Jamdar (M-Env. Group), M. Connors (D6), T. Ko (B-Small Business)

Members Absent: (1 member) W. Farrell (D7)

Member of the public: Eric Brooks

2. Report from the Chair: Ted Ko (*5 minutes*)

Member T. Ko is stepping down as chair of the Power Subcommittee and resigning from the CAC.

Public comment: None

3. Staff report (*5 minutes*)

In city tour: Available April 11th, 2014 8:00am -12:00 pm

Member W. Farrell arrives at 5:41 pm (5 members present, quorum still confirmed)

4. Presentation: **Power Enterprise 101**, Charles Sheehan, Communications Manager *(15 minute presentation, 15 minute discussion)*

The presentation included:

- Who we provide power to
- Where the power comes from: Hydroelectric, solar, and Biogas
- 1.6 billion kilowatt hours of greenhouse, gas free energy
- 16 installations generate 7.6 MW
- Other responsibilities: street lights, energy efficiency, GoSolarSF, CleanPowerSF, wave and wind power, electric vehicle charging stations
- SFPUC owns 60% of the street lights in the city.
- Increased in-city photovoltaic generating capacity by 6.2 MW
- Working with hydroelectric or some combination of renewable energy only
- Integration of the new LED street lights

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Topics of Discussion:

- Response to the drought
- Power on Treasure Island
- 30-40% of average rain year reached
- CleanPowerSF

Public Comment: Eric Brooks

- Staff is not able to work on CleanPowerSF at the moment
- Climate crisis challenges
- CCA is a state law that allows a grouping of customers into a huge co-op.
- LAFCO has released a request for proposals for the design and build out.
- The need for the CAC to write a resolution to the commission that they begin working on CleanPowerSF and help LAFCO develop the plan for the build out.
- Willing to answer questions about LAFCO

5. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)

6. Future Agenda Items (*5 minutes*)

    1. CleanPowerSF- adopting a resolution for them to support it (LAFCO to revisit vote)
    2. Going deeper into energy efficiency- Member A. Jamdar will take lead on coordinating with the next agenda.
    3. Treasure Island- Member M. Connors will take lead on coordinating with agenda
    4. Upgrading the CAC Bi-laws: one member from each subcommittee. Rewrite and submit to the Board of Supervisors.

7. Discussion of Future Resolutions (*10 minutes*)

    b. Clean Power SF (Members Ko and Aragon)

Topics of Discussion:

- The subcommittee is opening up discussion on best ways to support CleanPowerSF
- SFPUC can now do power purchasing the same way Shell can, so a private company would not be needed.
- Now that Power Enterprise has a bond rating for buying and selling power, they can take on the role that Shell was going to take on by expanding current operations at Hetch Hetchy.
- Hetch Hetchy is currently buying and selling 200 MW of energy per year, and the startup of CCA is 20-30 MW.
- CleanPowerSF can be a good stepping stone for municipal power.
- Important to point out that CleanPowerSF can be the future of energy in SF, and the latest LPI study that was done to for the build out shows 600 million worth of savings.
- Addressing the unions that are against CleanPowerSF
- Reminding the SFPUC that CleanPowerSF is also one of the best ways of coping with the climate change.
- Finding a way to get the SFPUC to work closer with LAFCO.
- CleanPowerSF is now fully competitive with PG&E's "Brown power" program.
- With a 20-30 year financing plan, the clean energy will eventually cost less than fossil fuels.
- Chair W. Aragon will be putting together a draft with member A. Jamdar, and would like to set April as the goal meeting date.

8. Announcements/Comments (*5 minutes*)

- Next Power Subcommittee meeting set for Tuesday, April 1, 2014.
- All Power Subcommittees will be reserved for the first Tuesday of every month, and is subject to change at the discretion of the subcommittee.

9. Adjournment

Member Connors makes the motions to adjourn the meeting.

A. Jamdar seconds motion.

Motion Passes and meeting is adjourned at 6:46 pm.

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, April 1, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Wendy Aragon (D1) Walt Farrell (D7) Mark Connors (D6)
Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Charles Sheehan

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ORDER OF BUSINESS

1. Call to order and roll call

2. Report from the Chair: Mark Connors (*5 minutes*)
   - New Subcommittee Chair Announcement
   - Welcome new public member
   - Discuss recruitment of new members

3. Presentation: SFPUC's Renewable Energy Portfolio and Go Solar Program, Lori Mitchell, Renewable Generation Manager *(15 minute presentation, 15 minute discussion)*

   Presentation will cover:
   - Provide an overview of the PUC's Renewable Energy Portfolio and GO Solar Program
   - Discuss the current challenges and future opportunities

4. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)

5. Approval of the March 4, 2014 minutes *(5 minutes)*

6. Future Agenda Items (*5 minutes*)

7. Discussion and Possible Action on Future Resolutions (*10 minutes*)

   a. Clean Power SF (Member Aragon)

8. Staff report (*5 minutes*)

9. Announcements/Comments (*5 minutes*)

10. Adjournment

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MEETING MINUTES (DRAFT)

Tuesday, April 1, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 2nd Floor O'Shaughnessy Conference Room

Members

Wendy Aragon (D1) Walt Farrell (D7) Mark Connors (D6)
Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Charles Sheehan

ORDER OF BUSINESS

1. Call to order and roll call : Meeting called to order 5:33 pm

Members present: (4 members present, quorum confirmed) M. Connors (D6), W. Aragon (D1), W. Farrell (D7), A. Jamdar (M-Env. Group),

Members Absent: N/A

Members of the public: Eric Brooks (SF Green Party, Our City San Francisco, Coalition of SF Clean Energy Advocates), Jason Fried (Local Agency Formation Commission), Peter Lauterborn (Legislative Aide for Supervisor Eric Mar)

2. Report from the Chair: Mark Connors (*5 minutes*)
   - New Subcommittee Chair Announcement
   - Welcome new public member
   - Discuss recruitment of new members

3. Presentation: SFPUC's Renewable Energy Portfolio and Go Solar Program, Lori Mitchell, Renewable Generation Manager *(15 minute presentation, 15 minute discussion)*

The Presentation Covered:

- Provide an overview of the PUC's Renewable Energy Portfolio and GO Solar Program
- Current challenges and future opportunities
- Solar photovoltaic generation
- GoSolarSF incentive program objectives
- 19.3 million paid so far
- 119 new jobs for disadvantaged San Franciscans, 19 currently employed
- Program changes for FY 2013-14
- Residential incentive structure
- Business and nonprofit Structure

Topics of Discussion:

- Sunset Reservoir power purchase agreement/ buy out provisions

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- Direct jobs vs multiplier effect for new jobs

4. Public Comment: members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)

Peter Lauterborn - Legislative Aide for Supervisor Eric Mar

Jason Fried- San Francisco Local Agency Formation Commission

5. Approval of the March 4, 2014 minutes *(5 minutes)*

Member W. Farrell objects to the line in the March 4 minutes stating that "CleanPowerSF can be a good stepping stone for Municipal Power" on the basis of it being an opinion.

Member W. Farrell requests that it be removed from the March 4, 2014 Minutes.

Motion was made (A.Jamdar) and seconded (W. Aragon) to approve March 4, 2014 minutes with aforementioned edits from member W. Farrell.

Public Comment: Eric Brooks: Supports amending the contested statement rather than completely removing it.

The motion PASSED containing the aforementioned edits by the following vote:
AYES: (4) – W. Aragon, W. Farrell, A. Jamdar, M. Connors
NOES: (0)
ABSENT :(0)

6. Future Agenda Items (*5 minutes*)

    1. Going deeper into energy efficiency- Member A. Jamdar will take lead on coordinating with the next agenda.
    2. Treasure Island- Chair M. Connors will take lead on coordinating with agenda
    3. Bi-laws Committee: This group is a working group, not a subcommittee. Rewrite and submit to the Board of Supervisors.
    4. Title 24 changes that are coming
    5. Adding Eric Brooks to the subcommittee as a public member

Public comment: Eric Brooks: Willing to join committee as a public member

7. Discussion and Possible Action on Future Resolutions (*10 minutes*)

    a. Clean Power SF (Member Aragon) - Working/editing session on resolution.

    Public Comment: Eric Brooks: There is no other mechanism, besides "Muncipalization" (which is not possible in SF) through which we can get the kind of renewable energy policy we need quickly enough to address the climate crisis, and getting to the cities goals without CCA/ CleanPowerSF.

    Public Comment: Peter Lauterborn, Legislative Aide for Supervisor Eric Mar: Really excited that the CAC is addressing this program. On the basis that this provides San Franciscan's an opportunity to choose clean energy if they want it and take part in a climate change solution. We favor a local build out plan as quickly and aggressively as possible, knowing that in order to do this we need to sell electricity to these customers. We are excited to see this moving forward.

Public Comment: Jason Fried: The 19.5 million is actually set to be paid back by the CleanPowerSF program over a span of 12-15 years. The city has greenhouse gas emission goals and 45% of the reductions from the 100% renewable generation goal. CCA program is the single biggest thing we can do as a city to getting it close to reach the city's renewable energy goals.

Public comment: Eric brooks: AB117 which passed in 2002, the legislation that enables CCA's like CleanPowerSF, put the legislative governing bodies in charge of these programs (BOS). Board of Supervisors has never had a vote for CleanPowerSF that was less than a super majority in the entire 10 year history of this.

Public comment: Jason Fried: If we put solar panels on every resident's roof in compliance with fire code, we would be able to recover 7% of the cities energy generation. CCA can do a lot more then what PG&E has been doing in regards to energy efficiency work. You need to mix and match several sources to create one big mix/ combination of things to make it work. I believe the SFPUC has the staff and resources to sustain these programs.

Motion was made (W. Aragon) and seconded (A. Jamdar) to accept and approve CleanPowerSF resolution with edits from discussion and present it at the next full CAC meeting.

Public Comment: Jason Fried: On behalf of LAFCO (Local Agency Formation Commission) - Thank you for taking up the resolution, it should be noted that all of the districts supervisors that are represented here today, were all in support of the September of 2013's resolution encouraging the SFPUC to move forward with this program.

Public Comment: Eric Brooks: On behalf of the SF Green Party, Our City San Francisco, and the Coalition of SF Clean Energy Advocates: Yesterday there was a hearing in the Land Use Committee where we believe the Department of Environment removed CleanPowerSF from its climate action strategy when it was in there before. There was a big public turnout in support of keeping it on the Climate Action Strategy.

The motion PASSED by the following vote:
AYES: (3) – W. Aragon, A. Jamdar, M. Connors
NOES: (1) W. Farrell
ABSENT: (0)

Amended version of resolution will be put on the agenda for the next FULL CAC meeting.

8. Staff report (*5 minutes*)

   Reminder to RSVP for the Hetch Hetchy Tours

9. Announcements/Comments (*5 minutes*)

No public comment

10. Adjournment

Motion was made (W. Farrell) and seconded (W. Aragon) to adjourn.

None opposed

Meeting Adjourned: 6:40 pm

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Citizens' Advisory Committee Meeting
Power Subcommittee

THERE WILL BE NO POWER SUBCOMMITTEE MEETING IN MAY 2014.

Effective March 2014, Citizen's Advisory Committee Power subcommittee will schedule all regular meetings on an as-needed basis.

All future meetings will occur the first Tuesday of the scheduled meeting month.

All future meetings and agenda packets will be made available on our website:
http://www.sfwater.org/index.aspx?page=90

Thank you
SFPUC Communications

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Meeting Notice

Citizens' Advisory Committee (CAC) Power Subcommittee

THERE WILL BE NO REGULAR MEETING OF THE POWER SUBCOMMITTEE OF THE CAC IN JUNE DUE TO SCHEDULING CONFLICTS.

Effective March 2014, the Citizen's Advisory Committee Power Subcommittee will schedule all regular meetings on an as-needed basis.

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The next scheduled regular meeting will be Tuesday, July 1st, 2014.

Thank you

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Vice President

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Commissioner

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Meeting Notice

Citizens' Advisory Committee (CAC)
Power Subcommittee

THERE WILL BE NO REGULAR MEETING OF THE POWER SUBCOMMITTEE OF THE CAC IN JULY, 2014 DUE TO SCHEDULING CONFLICTS.

Effective March 2014, the Citizen's Advisory Committee Wastewater Subcommittee will schedule all regular meetings on an as-needed basis.

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All future meetings will occur the second Tuesday of the **scheduled** month. Please visit our website for future meeting notices and agenda packets:

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The next scheduled regular meeting will be Tuesday, October 7th, 2014.

Thank you

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Meeting Notice

Citizens' Advisory Committee (CAC) Power Subcommittee

THERE WILL BE NO REGULAR MEETING OF THE POWER SUBCOMMITTEE OF THE CAC IN AUGUST, 2014 DUE TO SCHEDULING CONFLICTS.

Effective March 2014, the Citizen's Advisory Committee Wastewater Subcommittee will schedule all regular meetings on an as-needed basis.

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The next scheduled regular meeting will be Tuesday, October 7th, 2014.

Thank you

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Meeting Notice

Citizens' Advisory Committee (CAC)
Power Subcommittee

THERE WILL BE NO REGULAR MEETING OF THE POWER SUBCOMMITTEE OF THE CAC IN SEPTEMBER, 2014 DUE TO SCHEDULING CONFLICTS.

Effective March 2014, the Citizen's Advisory Committee Wastewater Subcommittee will schedule all regular meetings on an as-needed basis.

All future meetings will occur the second Tuesday of the **scheduled** month. Please visit our website for future meeting notices and agenda packets:

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The next scheduled regular meeting will be Tuesday, October 7th, 2014.

Thank you

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San Francisco Public Utilities Commission
Citizens' Advisory Committee
Power Subcommittee

MEETING AGENDA

Tuesday, October 7, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 3rd Floor Tuolumne Conference Room

Members

Kelly Groth (D7) Rebecca Lee (D3) Mark Connors (D6)
Shalini Swaroop (D8) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Jessica Buendia

ORDER OF BUSINESS

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1. **Call to order and roll call**

2. **Report from the Chair** (*10 minutes*)

   - Welcome new committee members
   - Introductions

3. **Presentation and Discussion:** SFPUC Net Energy Metering (NEM) Program and Shared Renewable Energy Programs, Barbara Hale, Assistant General Manager of the Power Enterprise and Michael Hyams, Acting Manager, Regulatory and Legislative Affairs *(15 minute presentation, 15 minute discussion)*

   Presentation will provide:
   - An overview of the NEM and ShaRE tariff offerings currently in development
   - An outline of future program design elements
   - A discussion of implications of AB 327 (2013) on SFPUC's programs and San Francisco solar development

4. **Approve** April 1, 2014 minutes *(5 minutes)*

5. **Future Agenda Items and Resolutions** (*5 minutes*)

   1.) Going deeper into energy efficiency- A. Jamdar
   2.) Treasure Island- Chair M. Connors will take lead on coordinating agenda
   3.) Title 24 changes that are coming
   4.) Adding Eric Brooks as a public member

6. **Staff report** (*5 minutes*)

7. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)

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Art Torres
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General Manager

8. **Announcements/Comments** (*5 minutes*)

9. **Adjournment**

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Disability Access
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Government's duty is to serve the public, reaching its decisions in full view of the public. Commissions, boards, councils, and other agencies of the City and County exist to conduct the people's business. This ordinance assures that deliberations are conducted before the people and that City operations are open to the people's review. For more information on your rights under the Sunshine Ordinance or to report a violation of the ordinance, contact the Sunshine Ordinance Task Force, by mail to Chris Rustom, Administrator, Sunshine Ordinance Task Force, 1 Dr. Carlton B. Goodlett Place, Room 244 San Francisco, CA 94102-4683; by telephone 415-554-7724, by Fax 415-554-7854, or by email: sotf@sfgov.org

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MEETING MINUTES

Tuesday, October 7, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 3rd Floor Tuolumne Conference Room

Members

Kelly Groth (D7) Rebecca Lee (D3) Mark Connors (D6)
Shalini Swaroop (D8) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Jessica Buendia

ORDER OF BUSINESS

1. **Call to order and roll call: Meeting called to order at 5:28 pm.**

Members present: (3 members present, quorum confirmed) S. Swaroop (D8), R. Lee (D3), A. Jamdar (M-Env. Group),

Members Absent: M. Connors (D6), K. Groth (D7)

Members of the public: Eric Brooks

2. **Report from the Chair** (*10 minutes*)

   - Welcome new committee members
   - Introductions

3. **Presentation and Discussion:** SFPUC Net Energy Metering (NEM) Program and Shared Renewable Energy Programs, Michael Hyams, Acting Manager, Regulatory and Legislative Affairs *(15 minute presentation, 15 minute discussion)*

The Presentation Covered:

- An overview of the NEM and ShaRE tariff offerings currently in development
- An outline of future program design elements
- A discussion of implications of AB 327 (2013) on SFPUC's programs and San Francisco solar development
- Net energy metering basics

Topics of Discussion:

- Sunset Reservoir power purchase agreement/ buy out provisions
- Direct jobs vs multiplier effect for new jobs
- Feeding tariffs
- Upcoming Commission timelines

Public Comment: Eric Brooks: Discusses the possibility of maxing out residential and commercial spaces by offering them a feeding tariff.

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Public Comment: Eric Brooks: Discusses the possibility of allowing any customer to pay extra to help fund projects and then get a benefit on their respective bills.

Member K. Groth arrives at 6:10 pm (4 members present, quorum confirmed)

4. **Approve** April 1, 2014 minutes *(5 minutes)*

Motion was made (A. Jamdar) and seconded (R. Lee) to approve April 1, 2014 minutes.

No public Comment:

The motion PASSED containing the aforementioned edits by the following vote:
AYES: (4) – S. Swaroop, R. Lee, A. Jamdar, K. Groth
NOES: (0) -
ABSENT :(1) M. Connors

5. **Future Agenda Items and Resolutions** (*5 minutes*)

   1.) Power Enterprise Budget- November 4th
   2.) Electric Vehicle integration- Staff M. Hyams
   3.) Energy Efficiency- A. Jamdar
   4.) Treasure Island- S. Swaroop
   5.) Expansion of energy portfolio- S. Swaroop
   6.) Looking at low income community issues holistically- S. Swaroop
   7.) Data access for energy data- R. Lee

Public Comment: Eric Brooks: Recommended a GoSolarSF update for the next fiscal year, as well as a breakdown of Hetchy power sales.

6. **Staff report** (*5 minutes*)

- Please send Bio's- J. Buendia
- Please attend the November FULL CAC meeting on Workforce Development with BAYWORK.

7. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)

No public comment.

8. **Announcements/Comments** (*5 minutes*)

- Next meeting for the Power Subcommittee is November 4th.

9. **Adjournment**

Motion was made (A. Jamdar) and seconded (S. Swaroop) to adjourn meeting.

None opposed.

Meeting adjourned at 6:55 pm.

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MEETING AGENDA

Tuesday, November 4, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 3rd Floor Tuolumne Conference Room

Members

Kelly Groth (D7) Rebecca Lee (D3) Mark Connors (D6)
Shalini Swaroop (D8) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Charles Sheehan

ORDER OF BUSINESS

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1. **Call to order and roll call**
2. **Report from the Chair** (*5 minutes*)
   - Welcome members, staff, and the public
3. **Presentation and Discussion:** Phase I Development of Hunters Point Shipyard, Samuel Larano, Redevelopment Manager for the SFPUC Power Enterprise (*10 minute presentation, 10 minute discussion)*

   Presentation will discuss:
   - Phase 1 Development of Hunters Pont Shipyard
   - SFPUC's role as the electric service provider to this new community
4. **Approve** October 7, 2014 minutes *(5 minutes)*
5. **Future Agenda Items and Resolutions** (*5 minutes*)
6. **Staff report** (*5 minutes*)
7. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)
8. **Announcements/Comments** (*5 minutes*)
9. **Adjournment**

Edwin M. Lee
Mayor

Vince Courtney
President

Ann Moller Caen
Vice President

Francesca Vietor
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Art Torres
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MEETING MINUTES

Tuesday, November 4, 2014
5:30 p.m. – 7:00 p.m.
525 Golden Gate 3rd Floor Tuolumne Conference Room

Members

Kelly Groth (D7) Rebecca Lee (D3) Mark Connors (D6)
Shalini Swaroop (D8) Avni Jamdar (M-Env. Group)

M = Mayoral appointment, B = Board President Appointment

Staff Liaisons: Ryan Iwata and Charles Sheehan

ORDER OF BUSINESS

1. **Call to order and roll call: Meeting called to order at 5:31 pm**

Members present: (4 members present, quorum confirmed) S. Swaroop (D8), R. Lee (D3), M. Connors (D6), A. Jamdar (M-Env. Group),

Members Absent: K. Groth (D7)

Members of the public: Cal Broomhead (DEM)

2. **Report from the Chair** (*5 minutes*)

   - Welcome members, staff, and the public

   No public comment

3. **Presentation and Discussion:** Phase I Development of Hunters Point Shipyard, Samuel Larano, Redevelopment Manager for the SFPUC Power Enterprise (*10 minute presentation, 10 minute discussion)*

The Presentation Covered:

- Phase 1 Development of Hunters Point Shipyard
- SFPUC's role as the electric service provider to this new community
- Public power utility goals
- Lennar construction schedule 2007-2017
- Projected 1400 units (residential)
- Projected 300,00 square feet (commercial)
- Hilltop development area
- First time the SFPUC will be serving power to residential customers
- Useful life of electrical infrastructure is about 25 years
- Differences In greenhouse gas emissions and carbon dioxide

Topics of Discussion:

- Micro grid integration during phase II- S. Swaroop
- Hunters Point as a potential showcase for CleanPowerSF- A. Jamdar
- Blackouts on Treasure Island- M Connors
- Resiliency issues and comparisons with Hunters Point Shipyard and Treasure Island- A. Jamdar

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General Manager

- Traditional gas energy vs green energy in low income housing-R.Lee

No public comment

4. **Approve** October 7, 2014 minutes *(5 minutes)*

Motion was made (A. Jamdar) and seconded (M. Connors) to approve October 7, 2014 minutes.

No public comment:

The motion PASSED containing the aforementioned edits by the following vote:
AYES: (4) – S. Swaroop, R. Lee, A. Jamdar, M. Connors
NOES: (0) -
ABSENT :(1) K. Groth

5. **Future Agenda Items and Resolutions** (*5 minutes*)

1.) Power Enterprise Budget- November 4th
2.) Treasure Island (next year)- M. Connors
3.) Electric Vehicle integration- Staff M. Hyams
4.) Energy Efficiency- A. Jamdar
5.) Expansion of energy portfolio- S. Swaroop
6.) Looking at low income community issues holistically- S. Swaroop
7.) Data access for energy data- R. Lee
8.) Integrated demand side management topics (Powertree)- C. Broomhead
9.) Blackout preparation on Treasure Island- M. Connors
10.) Battery Storage- S. Swaroop

Info Request #030- A. Jamdar: What kind of involvement does the SFPUC have with energy efficiency programs?

No public comment

6. **Staff report** (*5 minutes*)

- Next Full CAC meeting is November 18th

No public comment

7. **Public Comment:** members of the public may address the Committee on matters that are within the Committee's jurisdiction and are not on today's agenda (*2 minutes per speaker*)

No public comment

8. **Announcements/Comments** (*5 minutes*)

No public comment

9. **Adjournment**

Motion was made (S. Swaroop) and seconded (M. Connors) to adjourn meeting.

No public comment

None opposed.

Meeting adjourned at 6:36 pm.

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